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THE PLANT DISEASE REPORTER

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Supplement 105

List of Causes of Fungous and Bacterial Plant Diseases in Maine to 1936 Inclusive

June 1, 1938

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

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MAINE

COUNTIES, PRINCIPAL CITIES, AND RIVERS

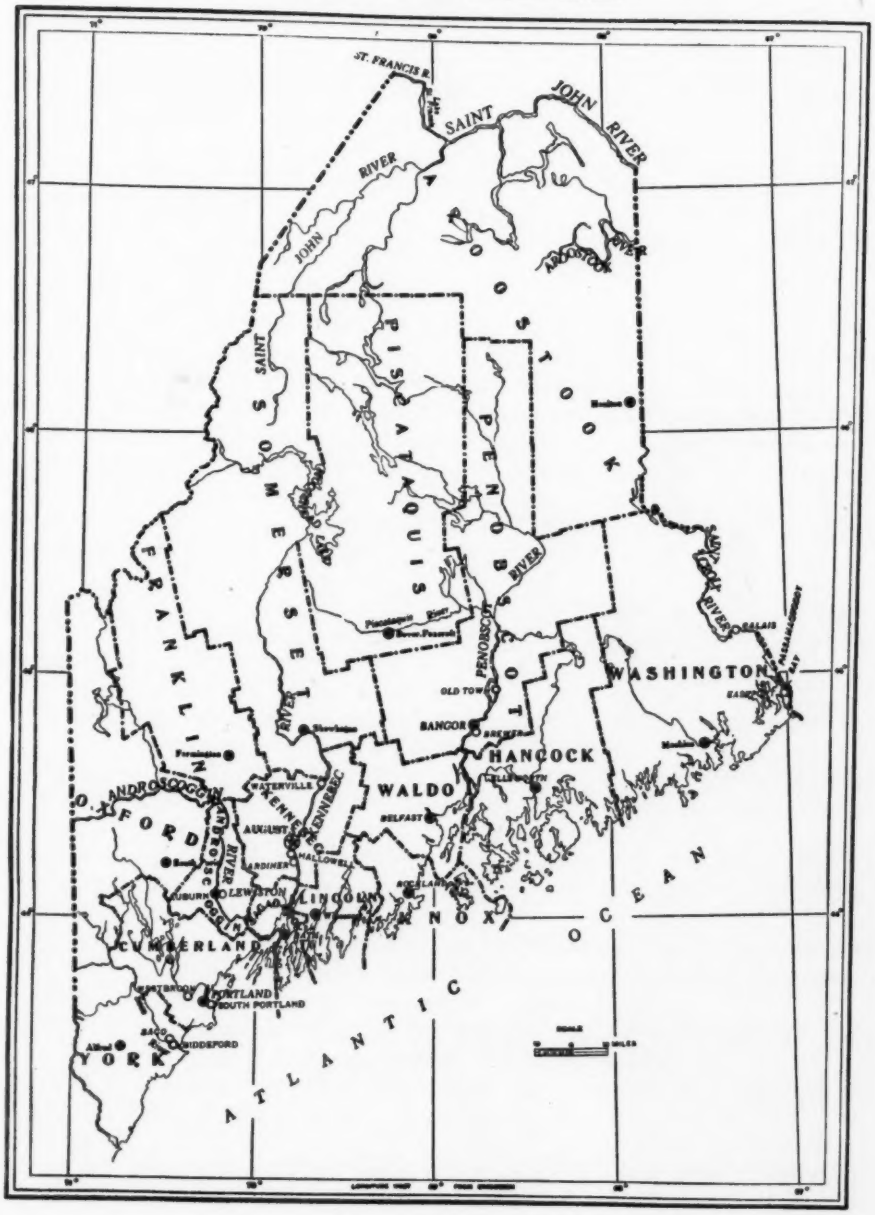

Figure 1.

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LIST OF CAUSES OF FUNGOUS AND BACTERIAL PLANT DISEASES IN MAINE TO 1936 INCLUSIVE

By M. T. Hilborn, Assistant Plant Pathologist, and Florence L. Markin, formerly Assistant Plant Pathologist, of the Maine Agricultural Experiment Station.

Plant Disease Reporter
Supplement 105 June 1, 1938

The only previous list of Maine fungi was published in 1902 by P. A. Ricker. Other references to the fungi of Maine are few and are scattered in literature that is not easily available to plant pathologists. Since 1902 much unpublished information has been accumulated. The present list was compiled with two objectives in view: (1) to record every known fungous and bacterial disease of green plants and their parts as grown in Maine, excluding those imported for sale only, and (2) to indicate the geographic distribution, prevalence, and possible economic importance of such diseases.

The data upon which this list is based have come from varied sources. These are indicated in the list by key letters whose meaning is as follows:

A = J. C. Arthur, "Manual of the Rusts in United States and Canada", Purdue Research Foundation, 1934.
B = U. S. Dept. Agric. Bull. 1366, "Check List of Diseases of Economic Plants in the United States", by Paul J. Anderson et al. 1926.
C = card in the file of disease records of the Department of Plant Pathology of the Maine Agricultural Experiment Station.
H = herbaria of the Department of Botany, University of Maine, and the private herbaria of interested botanists at the University.
L = a letter, or other correspondence.
P = Plant Disease Reporter, or supplements and special reports of the Plant Disease Survey as indicated.
R = P. L. Ricker, "A Preliminary List of Maine Fungi", Univ. of Maine Studies, No. 3, 1902.

After each scientific name of a fungus there are given the sources of information, i.e., C, L, P, etc., noted above; the first known date of occurrence or report of the disease; the location; and, sometimes, the name of the person making the identification. The location is given as the name of the county in which the collection was made, where this is

known. (See Fig. 1 for map showing counties). No date except that of the first report is given after the key letter C if more than four reports occur, and in such a case the phrase "general" or "general over the range of the host" is added. If the fungus has been reported from both Ricker and some other source the Ricker citation is omitted.

An attempt has been made to have the scientific names of fungi conform with the International Rules of Nomenclature. For this, the preferred references are A. B. Seymour's "Host Index of the Fungi of North America", a work which is host-indexed, as the name indicates, but not cross-indexed for the fungi, and "Enumeratio Systematica Fungorum" by C. A. J. A. Oudemans, which is indexed for both pathogen and host. For bacterial names use was made of Bergey's Manual, 4th edition. The "Check List of Diseases of Economic Plants in the U. S.", U. S. Dept. of Agric. Bull. 1366, was used to increase uniformity in the abbreviations of the authorities of scientific names. J. C. Arthur's "Manual of the Rusts in United States and Canada" is cross-indexed and indicates the preferred names. Gray's "Manual of Botany", Rehder's "Manual of Cultivated Trees and Shrubs", and other works on botany have been used to correlate the common and scientific names of hosts.

Credit is due to various present and former members of the Maine Agricultural Experiment Station who have contributed to this list while on the Station staff. These are: W. J. Morse, C. E. Lewis, M. Shapovalov, G. B. Ramsey, Donald Folsom, Reiner Bonde, and T. T. Ayers. A. E. Prince of the Department of Botany, University of Maine, has contributed data on the genus Gymnosporangium, and Fay Hyland of the same department has checked the names of the woody plants where questions of nomenclature arose. C. E. Ogden of the Gray Herbarium, Harvard University, has been very kind in checking names of some of the herbaceous plants where questions of nomenclature were involved.

The list is intended to be complete up to December 31, 1936. It includes 281 hosts in addition to 90 which are referred to only by Ricker, and 398 pathogens in addition to 332 which are referred to only by Ricker. However, the writers readily admit that the list is only preliminary. No extensive or intensive surveys have been made in Maine except with reference to some particular research project. With no extension plant pathologist stationed here except for a year or so about twenty years ago, no effort has been made even to increase the number of inquiries and specimens from growers. The present list may stimulate an interest in making our information more complete as to the number and distribution of plant diseases in Maine.

LISTING PRIMARILY BY HOSTS

ABIES BALSAMEA (L.) Mill. FIR

*Bertia moriformis (Tode) DeNot.[1] 1895 Penobscot. 1896 Androscoggin.
*Chilonectria cucurbitula (Curr.) Sacc. (Nectria cucurbitula of R). York.
*Dasyscypha agassizii (Berk. & Curt.) Sacc. 1896 Penobscot, 1898 Cumberland.
*Dasyscypha calycina (Schum.) Fckl. 1896 Penobscot, 1898 Cumberland.
*Discosia artocreas (Tode) Fr. 1900 Penobscot.
*Fomes pini (Thore) Lloyd (Polystictus piceinus of R). 1897 York.
Lenzites trabea (Pers.) Fr. P 1936.
Melampsorella cerastii (Pers.) Schroet. A Maine. C 1927 Kennebec.
Milesia fructuosa Faull. A Maine.
Milesia polypodophila (Bell) Faull. A Maine.
*Polyporus abietinus (Dicks.) Fr. (Polystictus abietinus of R). 1857 Cumberland.
*Polyporus resinosus (Schrad.) Fr. 1893 Penobscot.
*Polyporus vaporarius (Pers.) Fr. (Poria vaporaria of R). 1857 Cumberland, 1896 Penobscot.
Poria undata Pers. P 1936.
Pucciniastrum goeppertianum (Kühn) Kleb. (Calyptospora columnaris Kühn). P 1931.
Stereum purpureum (Pers.) Fr. P 1936 (first report on a coniferous substratum anywhere).
*Stictis hysterina Fr. (Xylogramma hysterinum of R). 1860 York.
*Tympanis laricina (Fckl.) Sacc. 1897 Androscoggin.
Uredinopsis mirabilis (Pk.) Magn. A Maine.
?*Valsa abietis Fr. 1897 Penobscot.
*Valsa colliculus (Wormsk.) Berk. 1857 Cumberland.

ACER sp. MAPLE

*Cenangium prunastri (Pers.) Fr. 1859 Cumberland.
*Chilonectria cucurbitula (Curr) Sacc. 1896 Penobscot.
*Chlorosplenium versiforme (Pers.) DeNot. 1859 Cumberland.
*Coryne sarcoides (Jacq.) Tul. 1856 Cumberland.
*Daedalea confragosa (Bolt.) Fr. 1858 Cumberland.

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[1] Citations marked with an asterisk (*) are from Ricker only; the inclusion of such names seems desirable in view of the fact that his list is not generally available. Such citations preceded by "?" are of species not found in the standard references listed in the introduction. When different spellings of a name are given in Ricker's text and index and one is correct, the correct one is used here. As far as noticed, incorrect spelling in Ricker is corrected here.

ACER sp. (continued)

*Diatrype obesa Berk. & Curt. (Valsaria quadrata (Berk.) Sacc. of R). 1887 Penobscot.
*Eutypa spinosa (Pers.) Tul. Cumberland.
Fomes applanatus (Pers.) Wallr. P 1921.
Gloeosporium sp. C 1928 Hancock, 1935 Cumberland.
Gloeosporium apocryptum Ell. & Ev. C 1928 Hancock. P 1919 Suppl. 11. L 1924 Cumberland, 1927 Lincoln.
*Hypoxylon perforatum (Schw.) Fr. 1888 Penobscot.
*Hysterium pulicare Pers. 1859 Cumberland.
*Massaria inquinans (Tode) Fr. 1892 Penobscot.
*Melanomma pulvis-pyrius (Pers.) Fckl. Cumberland.
Nectria sp. C 1929 Sagadahoc. P 1927.
*Ophiobolus porphyrogonus (Tode) Sacc. Cumberland, Penobscot.
Polyporus abietinus (Dicks.) Fr. H 1934 Penobscot.
*Polyporus adustus (Willd.) Fr. 1897 Penobscot, Androscoggin.
*Polyporus lacteus Fr. Cumberland.
?*Polyporus resinosus incurvuus Pk. 1896 Penobscot.
*Poria ferruginosa (Schrad.) Fr. 1895 Penobscot.
*Quaternaria persoonii Tul. 1859 Cumberland, Penobscot.
Rhytisma acerinum (Pers.) Fr. C 1910 Kennebec, 1913 York.
*Xylaria polymorpha (Pers.) Grev. 1899 Cumberland.

Acer dasycarpum. See A. SACCHARINUM.

ACER NEGUNDO L. BOX ELDER

Phyllosticta negundinis Sacc. & Speg. B Maine.

ACER PENNSYLVANICUM L. STRIPED MAPLE

Polyporus pargamenus Fr. P 1936.
*Septoria acerina Pk. 1899 Penobscot.
*Trametes mollis (Sommerf.) Fr. 1895 Piscataquis.

ACER PLATANOIDES L. NORWAY MAPLE

Gloeosporium apocryptum Ell. & Ev. B Maine.

ACER RUBRUM L. RED MAPLE

*Cytospora exasperans Ell. & Ev. (Cytispora exasperans of R). 1896 Penobscot.
Daedalea confragosa (Bolt.) Fr. P 1936.
*Diatrype platystoma (Schw.) Curt. 1892 Penobscot.
*Eutypella corynostoma (Berk. & Rav.) Sacc. 1896 Penobscot.
*Fomes connatus (Weinm.) Gill. 1897 Hancock, Penobscot.
Fomes scutellatus (Schw.) Cke. P 1936.
*Hymenochaete rubiginosa (Schrad.) Lév. 1898 Penobscot.
Hymenochaete tabacina (Fr.) Lév. P 1936.
*Hypoxylon coccineum Bull. 1887 Penobscot.
*Hypoxylon fuscum (Pers.) Fr. 1897 Cumberland, Penobscot.

ACER RUBRUM L. (continued).
*Hypoxylon rubiginosum (Pers.) Fr. 1897 Penobscot, Androscoggin.
*Hysterium pulicare Pers. 1897 Androscoggin.
Nectria sp. P 1934.
*Phyllosticta acericola Ell. & Ev. 1899 Cumberland, 1900 Penobscot.
Polyporus versicolor (L.) Fr. P 1936.
*Rhytisma acerinum (Pers.) Fr. 1900 Penobscot.
*Sphaeronema acerinum Pk. 1900 Penobscot.
*Steganosporium piriforme (Hoffm.) Cda. 1896 Cumberland.
*Trichoderma lignorum (Tode) Harz. 1897 Cumberland, Penobscot.
?*Trichothecium roseum (Pers.) Link. 1887 Cumberland, Penobscot.
*Uncinula circinata Cke. & Pk. 1889 Penobscot.

ACER SACCHARINUM L. SILVER MAPLE
(A. dasycarpum Ehrh. of R.)
*Bulgaria inquinans (Pers.) Fr. 1857 Cumberland.
*Rhytisma acerinum (Pers.) Fr. 1897 Penobscot.
*Septoria saccharina Ell. & Ev. 1899 Penobscot.

ACER SACCHARUM Marsh. SUGAR MAPLE
Armillaria mellea (Vahl) Quél. H 1936 Penobscot.
Fomes tenuis Karst. P 1936.
Gloeosporium apocryptum Ell. & Ev. P 1928.
Pestalozzia sp. C 1928 Hancock.
Phyllosticta minima (Berk. & Curt.) Ell. & Ev. P 1928.
Polyporus albellus Pk. P 1936.
Polyporus dichrous Fr. P 1936.
Poria viticola Schw. P 1936.
Taphrina sp. B Maine.

ACER SPICATUM Lam. MOUNTAIN MAPLE
Panus stipticus Bull. P 1936.
*Rhytisma punctatum (Pers.) Fr. 1898 Piscataquis.
Stereum hirsutum Fr. P 1936.

ACONITUM sp. MONKSHOOD
Mycosphaerella pachyasca (Rostr.) Vestergren. C 1932 York.

ACORUS CALAMUS L. SWEET FLAG
Uromyces pyriformis Cke. A Maine.

AESCULUS HIPPOCASTANUM L. HORSE-CHESTNUT
Phyllosticta sp. C 1915 York.
Phyllosticta paviae Desm. C 1914 Penobscot. P 1920.
Phyllosticta sphaeropsoidea Ell. & Ev. C 1912 Cumberland.

AGRIMONIA STRIATA Michx. AGRIMONY
Puociniastrum agrimoniae (Schw.) Tranz. A Maine.

AGROPYRON REPENS (L.) Beauv. QUACK GRASS
Puccinia graminis Pers. A Maine. C 1918 Aroostook. P 1919.

AGROSTIS ALBA L. WHITE BENT GRASS
Puccinia graminis Pers. A Maine.

AGROSTIS HYEMALIS (Walt.) B.S.P. HAIR GRASS
Puccinia graminis Pers. A Maine.
Puccinia rubigo-vera impatientis (Arth.) Mains. A Maine.

AGROSTIS PERENNANS (Walt.) Tuckerm. THIN GRASS
Puccinia graminis Pers. A Maine.
Puccinia rubigo-vera impatientis (Arth.) Mains. A Maine.

ALLIUM sp.
Uromyces bicolor Ell. A Maine.

ALLIUM CEPA L. ONION
Botrytis squamosa Walker. C 1928 Piscataquis.
Fusarium sp. C 1935 Androscoggin.
Peronospora destructor (Berk.) Caspary (P. schleideni Ung.) P 1919.
Urocystis cepulae Frost. P 1917.

ALNUS sp. ALDER
*Anthostoma ellisii Sacc. York.
*Anthostoma microsporum Karst. 1896 York.
*Calocera cornea Fr. Cumberland.
*Cenangium furfuraceum (Roth) DeNot. 1897 Penobscot.
*Cenangium tuberculiforme Ell. & Ev. 1896 Penobscot.
*Corticium auberianum Mont. Cumberland.
*Diaporthe leiphaema (Fr.) Sacc. 1857 Cumberland.
*Diatrype nigro-annulata (Grev.) Cke. 1859 Cumberland.
*Fomes scutellatus (Schw.) Cke. 1859 Cumberland, Penobscot.
*Grandinia corrugata Fr. 1892 Penobscot.
*Helminthosporium macrocarpum Grev. 1859 Somerset.
*Hydnum fusco-atrum Fr. Cumberland.
*Hydnum ochraceum Pers. 1876 Cumberland.
*Hypocrea contorta (Schw.) Berk. & Curt. 1859 Cumberland.
*Hypoxylon fuscum (Pers.) Fr. Cumberland.
*Hypoxylon morsei Berk. & Curt. Maine.
*Lasiosphaeria mutabilis (Pers.) Fckl. 1859 Cumberland.
*Massariella scoriadea (Fr.) Sacc. 1860 York.
*Merulius haedinus Berk. & Curt. 1876 Cumberland, York.
*Polyporus arcularius (Batsch) Fr. Cumberland.
*Polyporus lacteus Fr. 1858 Cumberland.
*Polyporus radiatus (Sow.) Fr. (Polystictus aureo-nitens of R). 1898 Penobscot.
?*Polystictus virgineus Schw. 1896 Androscoggin.

ALNUS sp. (Continued)
*Pseudovalsa lanciformis (Fr.) Ces. & DeNot. Cumberland, York.
*Tympanis alnea Pers. 1859 Cumberland.
*Valsa alni Pk. 1880 York.

ALNUS INCANA (L.) Moench. HOARY ALDER
Daedalea unicolor (Bull.) Fr. P 1936.
*Diatrypella tocciaeana DeNot. var. subeffusa Ell. & Ev. York.
Erysiphe aggregata (Pk.) Farl. B Maine.
*Exidia glandulosa (Bull.) Fr. 1895 Cumberland, 1896 Penobscot.
*Exoascus alni-incanae (Kühn) W.A.Orton. 1900 Cumberland, Penobscot.
Irpex cinnamomeus Fr. P 1936.
*Kneiffia setigera Fr. 1898 Penobscot.
*Microsphaera penicillata (Wallr.) Lév. 1900 Penobscot.
*Scorias spongiosa (Schw.) Fr. 1898 Penobscot.
Stereum fasciatum Schw. P 1936.
*Tympanis alnea Pers. 1899 Penobscot.

ALNUS RUGOSA (Duroi) Spreng. SMOOTH ALDER
(A. serrulata Willd. of R).
*Cyphella ravenelii Sacc. 1859 York, 1893 Penobscot.
Exoascus tosquinetii Sacc. B Maine.
?*Fomes obliquus (Pers.) Fr. 1896 Penobscot.

Alnus serrulata. See A. RUGOSA.

ALTHAEA ROSEA Cav. HOLLYHOCK
Puccinia malvacearum Bertero. A Maine. C 1910 (general). P 1918.

AMELANCHIER CANADENSIS (L.) Medic. SHADBUSH
*Dimerosporium collinsii (Schw.) Thüm. 1859 York, 1897 Penobscot.
Gymnosporangium biseptatum Ell. H 1936 Penobscot.
Gymnosporangium clavipes Cke. & Pk. A Maine.
Gymnosporangium corniculans Kern. A Maine.
Gymnosporangium nidus-avis Thax. H 1936 Penobscot.

AMELANCHIER INTERMEDIA Spach.
Gymnosporangium clavipes Cke. & Pk. A Maine.

AMELANCHIER OBLONGIFOLIA (T. & G.) Roem.
Gymnosporangium clavariaeforme (Jacq.) DC. A Maine.
Gymnosporangium clavipes Cke. & Pk. A Maine.

Amelanchier rotundifolia. See A. SANGUINEA.

AMELANCHIER SANGUINEA (Pursh) DC.
(A. rotundifolia Roem.).
Gymnosporangium clavipes Cke. & Pk. A Maine.
Gymnosporangium nidus-avis Thax. H 1936 Penobscot.

AMELANCHIER STOLONIFERA Wiegand.
Gymnosporangium nidus-avis Thax. H 1936 Penobscot.

Ampelopsis quinquefolia. See PARTHENOCISSUS QUINQUEFOLIA.
Ampelopsis tricuspidata. See PARTHENOCISSUS TRICUSPIDATA.

AMPHICARPA MONOICA (L.) Ell. HOG PEANUT
(In R. as Amphiocarp monoica).
*Synchytrium decipiens Farl. 1899 Penobscot.

ANDROMEDA GLAUCOPHYLLA Link. BOG ROSEMARY
(A. polifolia L. of R).
Exobasidium vaccinii (Fckl.) Wor. P 1931.
*Rhytisma andromedae (Pers.) Fr. 1899 Penobscot.

Andromeda ligustrina. See LYONIA LIGUSTRINA.
Andromeda polifolia. See A. GLAUCOPHYLLA.

ANDROPOGON sp. BEARD GRASS
Balansia hypoxylon Atk. C 1915 Oxford.

ANEMONE RIPARIA Fernald. ANEMONE
Puccinia anemones-virginianae Schw. A Maine.

ANEMONE VIRGINIANA L. ANEMONE
*Puccinia anemones-virginianae Schw. Cumberland.

ANTHOXANTHUM ODORATUM L. SWEET VERNAL GRASS
Puccinia graminis Pers. A Maine.
Puccinia poae-sudeticae (Westend.) Jørstad. A Maine.

ANTIRRHINUM MAJUS L. SNAPDRAGON
Phyllosticta antirrhini Syd. C 1927 Penobscot. P 1927.
Puccinia antirrhini Diet. & Holw. A Maine. C 1917 York. L 1917 Knox.
Sclerotinia sclerotiorum (Lib.) DBy. (S. libertiana Fckl.). C 1910 Hancock.
Verticillium sp. C 1932 Penobscot. P 1932.

Apargia autumnalis. See LEONTODON AUTUMNALIS.

APIUM GRAVEOLENS L. CELERY
Cercospora apii Fres. C 1908 (general over range of host).
Sclerotinia sp. C 1929 Penobscot.
Septoria apii Rostr. C (general over range of host). P 1919.
Septoria petroselini Desm. var. apii Berk. & Curt. C 1935 York.

ARALIA NUDICAULIS L. WILD SARSAPARILLA
Nyssopsora clavellosa (Berk.) Arth. A Maine.

ARALIA SPINOSA L. HERCULES CLUB
*Hypoderma commune (Fr.) Duby. 1899 Penobscot.

ARCTIUM LAPPAE L. BURDOCK
*Phyllosticta lappae Sacc. Maine 1900.

ARCTOSTAPHYLOS UVA-URSI (L.) Spreng. BEARBERRY
?*Phacidium vaccinii Fr. 1880 York.

ARENARIA GROENLANDICA (Retz.) Spreng. MOUNTAIN SANDWORT
*Ustilago violacea (Pers.) Fckl. 1897 Franklin.

Arenaria lateriflora. See MOEHRINGIA LATERIFLORA.

ARISAEMA TRIPHYLLUM (L.) Schott. INDIAN TURNIP
Uromyces caladii (Schw.) Farl. A Maine.

ARONIA sp. CHOKEBERRY
Gymnosporangium clavipes Cke. & Pk. (G. germinale (Schw.) Kern).
B Maine.
Gymnosporangium davisii Kern. B Maine.

ARONIA ARBUTIFOLIA Elliot var. ATROPURPUREA Britt.
(A. floribunda Elliot, Pyrus arbutifolia L.).
Gymnosporangium clavipes Cke. & Pk. A Maine.
Gymnosporangium davisii Kern. A Maine.
Gymnosporangium transformans (Ell.) Kern. H 1936 Knox.

Aronia floribunda. See A. ARBUTIFOLIA var. ATROPURPUREA.

ARONIA MELANOCARPA (Michx.) Ell.
Gymnosporangium clavipes Cke. & Pk. A Maine.
Gymnosporangium davisii Kern. A Maine.
Gymnosporangium transformans (Ell.) Kern. H 1936 Knox.

ARONIA MONSTROSA Zabel
Gymnosporangium clavipes Cke. & Pk. A Maine.

ASCLEPIAS sp. MILKWEED
*Uromyces asclepiadis (Schw.) Cke. Maine.

ASPARAGUS OFFICINALIS L. ASPARAGUS
*Pleospora asparagi Rabh. York.
Puccinia asparagi DC. C 1907 Penobscot.

Asplenium filix-femina. See ATHYRIUM ANGUSTUM.

ASTER sp. ASTER
*Puccinia asteris Duby. 1859 Cumberland.
Puccinia extensicola Plowr. A Maine.

ASTER LINDLEYANUS T. & G. ASTER
*Coleosporium solidaginis (Schw.) Thüm. 1900 Penobscot.

ASTER MACROPHYLLUS L. ASTER
*Erysiphe cichoracearum DC. 1899 Penobscot.
*Puccinia asteris Duby. 1895 Somerset, 1898 Cumberland.

ASTER NOVI-BELGII L. ASTER
*Entyloma compositarum Farl. 1899 Cumberland.

Aster umbellatus. See DOELLINGERIA UMBELLATA.

ATHYRIUM ANGUSTUM (Willd.) Presl.
(Asplenium filix-femina (L.) Bernh. of Arthur).
Uredinopsis struthiopteridis Störmer. A Maine.

Atriplex hastata. See A. PATULA.

ATRIPLEX PATULA L. ORACH
(A. hastata of Arthur).
Puccinia aristidae Tracy. A Maine.

AVENA SATIVA L. OATS
Helminthosporium sp. L 1925 Hancock.
*Helminthosporium inconspicuum Cke. & Ell. var. britannicum Grove. 1894 Kennebec, Penobscot.
Puccinia coronata Cda. C 1908 Hancock. P 1927. A Maine.
Puccinia graminis Pers. C (general over range of host). A Maine.
Ustilago sp. C (general over range of host). P 1917.
Ustilago avenae (Pers.) Jens. C (general over range of host).
Ustilago levis (Kellerm. & Sw.) Magn. C 1914 Somerset. L 1933 Maine.

BERBERIS VULGARIS L. COMMON BARBERRY
*Cucurbitaria berberidis (Pers.) S. F. Gray. Wells.
Puccinia graminis Pers. C (general).

BETA VULGARIS L. Beet
Actinomyces scabies (Thax.) Güssow. C 1931 York.
Cercospora beticola Sacc. C 1913 Oxford.
Phoma betae Frank. C 1915 Penobscot.

BETA VULGARIS var. CICLA L. CHARD
Cercospora beticola Sacc. C 1913 Penobscot.

BETULA sp. BIRCH
*Anthostoma microsporum Karst. 1880 York.
*Bombardia fasciculata Fr. 1858 Cumberland.
*Coccomyces dentatus (Schum.) Sacc. 1898 Penobscot.
*Daedalea unicolor (Bull.) Fr. 1896 Cumberland.
*Dermatea fusispora Ell. & Ev. 1892 Penobscot.
*Diatrype stigma (Hoffm.) Fr. 1857 Cumberland.
*Diatrypella verruciformis (Ehrhart) Nits. Cumberland.
Dothidea sp. C 1918 Hancock. P 1918.
*Hypoxylon morsei Berk. & Curt. 1880 York.
*Irpex lacteus Fr. 1897 Penobscot.
*Polyporus brumalis (Pers.) Fr. 1897 Penobscot.
*Polyporus elegans (Bull.) Fr. 1858 Cumberland.
*Poria ferruginosa (Schrad.) Fr. 1859 Cumberland.
*Stereum hirsutum Fr. 1898 Cumberland.
*Trametes suaveolens (L.) Fr. 1896 Penobscot.

Betula alba papyrifera. See B. PAPYRIFERA.

BETULA LENTA L. SWEET BIRCH
Polyporus elegans (Bull.) Fr. P 1936.
Polyporus radiatus (Sow.) Fr. P 1936.

BETULA LUTEA Michx. f. YELLOW BIRCH
Fomes applanatus (Pers.) Wallr. B Maine.
Fomes fomentarius (L.) Gill. H 1936.
*Fomes salicinus (Pers.) Cke. 1896 Penobscot.
*Guepinia spathularia (Schw.) Fr. 1897 Cumberland.
*Hypoxylon multiforme Fr. 1859 Cumberland.
Melampsoridium betulinum (Pers.) Kleb. A Maine.
*Rosellinia desmazierii (Berk. & Br.) Ell. & Ev. Cumberland.
Stereum murrayi (Berk. & Curt.) Burt. P 1936.

BETULA PAPYRIFERA Marsh. WHITE BIRCH
(B. alba papyrifera (Marsh) Spach.).
Fomes applanatus (Pers.) Wallr. B Maine.
Fomes fomentarius (L.) Gill. P 1936.
Fomes igniarius (L.) Gill. P 1936.
Fomes nigricans (Fr.) Gill. P 1936.
Melampsoridium betulinum (Pers.) Kleb. (M. betulae Arth.). A Maine. B Maine.
Nectria sp. P 1934.
*Polyporus pargamenus Fr. (Polystictus pergamenus of R.) 1895 Cumberland.
Poria laevigata (Fr.) Sacc. P 1936.
*Stereum pulverulentum Pk. 1892 Penobscot.

BETULA POPULIFOLIA Marsh. GRAY BIRCH
*Bulgaria rufa Schw. 1887 Penobscot.
*Calosphaeria ciliatula (Fr.) Karst. Penobscot.
*Diatrypella betulina (Pk.) Sacc. 1899 Penobscot.
*Discosia artocreas (Tode) Fr. 1857 Cumberland.
*Dothidella betulina (Fr.) Sacc. 1859 Cumberland.
Fomes connatus (Weinm.) Gill. P 1936.
Fomes fomentarius (L.) Gill. B Maine.
*Libertella betulina Desm. 1894 Penobscot.
Melampsoridium betulinum (Pers.) Kleb. A Maine.
*Melanconium bicolor Nees. Cumberland.
*Naemaspora crocea (Bon.) Sacc. 1880 York.
Phlebia strigosa-zonata (Schw.) Burt. P 1936.
Polyporus betulinus (Bull.) Fr. P 1936.
*Polyporus radiatus (Sow.) Fr. (Polystictus aureo-nitens of R.). 1896 Androscoggin.
Poria ferruginosa (Schrad.) Fr. P 1936.
*Stereum ochraceoflavum Schw. 1898 Penobscot.
*Venturia ditricha (Fr.) Karst. 1900 Penobscot.

BIDENS CERNUA L. STICK-TIGHT
*Sphaerotheca castagnei Lév. 1900 Penobscot.

BRASSICA sp. MUSTARD, TURNIP
Alternaria brassicae (Berk.) Sacc. L 1920 Knox.
Plasmodiophora brassicae Wor. L 1922 Washington. C 1934 Washington.

BRASSICA CAMPESTRIS L. RUTABAGA
*Periola tomentosa Fr. Cumberland.
Plasmodiophora brassicae Wor. C 1934 Washington.

BRASSICA OLERACEA L. CABBAGE
Alternaria brassicae (Berk.) Sacc. C (general over range of host).
Corticium vagum Berk. & Curt. C 1915 Penobscot.
Fusarium conglutinans Woll. P 1919.
Phytomonas campestris (Pam.) Bergey et al. (Bacterium campestre (Pam.) EFS). C 1932 York, Penobscot. P 1919.
Plasmodiophora brassicae Wor. C (general over range of host). P 1919.

BRASSICA OLERACEA BOTRYTIS L. CAULIFLOWER
Alternaria brassicae (Berk.) Sacc. L 1920 Knox.
Erwinia carotovora (Jones) Holland (Bacillus carotovorus L. R. Jones). C 1908 Penobscot. B Maine.
Phytomonas campestris (Pam.) Bergey et al. (Bacterium campestre (Pam.) EFS). C 1933 York.
Plasmodiophora brassicae Wor. C 1908 general.

BRASSICA RAPA L. TURNIP
Alternaria brassicae (Berk.) Sacc. C 1920 Knox.
Fusarium sp. C 1915 Penobscot.
Phytomonas campestris (Pam.) Bergey et. al. (Pseudomonas campestris (Pam.) EFS). C 1917 York.
Plasmodiophora brassicae Wor. C 1920 Washington. L 1922 Washington.
*Stilbum vulgare Tode. Cumberland.

CALAMAGROSTIS CANADENSIS (Michx.) Beauv. BLUE JOINT GRASS
*Claviceps purpurea (Fr.) Tul. 1892 Penobscot.

CALENDULA OFFICINALIS L. POT MARIGOLD
Sclerotinia sp. C Penobscot.

CALLISTEPHUS CHINENSIS Nees. CHINA ASTER
Corticium vagum Berk. & Curt. B Maine.
Fusarium conglutinans Woll. var. callistephi Beach. C 1929 Aroostook. P 1918. L 1925 Oxford.
Rhizoctonia sp. C 1908 Hancock.
Sclerotinia sclerotiorum (Lib.) DBy (S. libertiana Fckl.). C 1910 Hancock.

CAMPANULA MEDIUM L. CANTERBURY BELLS
Sclerotinia sp. C 1929 Piscataquis.

CAPSELLA BURSA-PASTORIS (L.) Medic. SHEPHERD'S PURSE
*Albugo candida (Pers.) Kuntze (Cystopus candidus (Pers.) Lév. of R.). 1898 Penobscot.

CAPSICUM FRUTESCENS L. PEPPER
Sclerotinia sp. C 1915 Cumberland.

CAREX BROMOIDES Schkuhr. SEDGE
*Puccinia caricis (Schum.) Schroet. 1899 Penobscot.

CAREX CRINITA Lam. SEDGE
*Puccinia caricis (Schum.) Schroet. 1899 Cumberland.

Carex debilis var. rudgei. See C. FLEXUOSA.

CAREX FLEXUOSA Muhl.
(C. debilis Michx. var. rudgei Bailey)
Puccinia caricis uniporula (C. R. Orton) Arth. A Maine.

CAREX PALLESCENS L.
Puccinia caricis uniporula (C. R. Orton) Arth. A Maine.

CAREX PAUPERCULA Michx.
Puccinia karelica Tranz. A Maine.

CAREX PEDUNCULATA Muhl.
*Phyllachora caricis (Fr.) Sacc. 1896 Penobscot.
*Ustilago caricis (Pers.) Fckl. 1896 Penobscot.

CAREX RETRORSA Schwein.
*Puccinia caricis (Schum.) Schroet. 1895 Penobscot.

CAREX ROSTRATA Stokes.
*Puccinia caricis (Schum.) Schroet. 1895 Penobscot.

CAREX SCOPARIA Schkuhr.
Puccinia extensicola euthamii Arth. A Maine.

CARYA sp. HICKORY
*Phyllosticta caryae Pk. 1888 Maine.

Cassandra calyculata. See CHAMAEDAPHNE CALYCULATA.
Castalia odorata. See NYMPHAEA ODORATA.

CASTANEA DENTATA (Marsh.) Borkh. CHESTNUT
Endothia parasitica (Murrill) P. J. & H. W. Anderson. P 1920.
Marssonia ochroleuca (Berk. & Curt.) Humph. B Maine.

CELASTRUS SCANDENS L. BITTERSWEET
*Asterina celastri Ell. & Kellerm. 1892 Penobscot.
*Phyllactinia suffulta (Reb.) Sacc. 1892 Penobscot.

CHAMAECYPARIS THYOIDES (L.) BSP WHITE CEDAR
Gymnosporangium biseptatum Ell. P 1936.
Gymnosporangium ellisii (Berk.) Farl. P 1936.

CHAMAEDAPHNE CALYCULATA (L.) Moench. LEATHER LEAF
(Cassandra calyculata of R.).
Chrysomyxa cassandrae (Pk. & G. W. Clinton) Tranz. A Maine.
*Venturia pulchella Cke. & Pk. 1897 Cumberland.

Chamaenerion spicatum. See EPILOBIUM ANGUSTIFOLIUM.

CHELONE GLABRA L. BALMANY
*Septoria wilsonii G.W. Clinton. 1899 Franklin.

CHENOPODIUM ALBUM L. LAMB'S QUARTERS
*Leptosphaeria doliolum (Pers.) DeNot. 1899 Penobscot.

CHRYSANTHEMUM MORIFOLIUM Ram. FLORISTS' CHRYSANTHEMUM
(C. sinense Sabine).
*Oidium chrysanthemi Rabh. 1898 Penobscot.

Chrysanthemum sinense. See C. MORIFOLIUM.
Circaea alpina. See C. LUTETIANA.

CIRCAEA LUTETIANA L. ENCHANTER'S NIGHTSHADE.
(C. alpina L. of R.).
Puccinia circaeae Pers. A Maine.

CIRSIUM ARVENSE (L.) Scop. CANADA THISTLE
Puccinia obtegens (Link) Tul. A Maine.

CIRSIUM LANCEOLATUM (L.) Mill. BULL THISTLE
Puccinia cnici Martius. A Maine.

CLEMATIS VIRGINIANA L. VIRGIN'S BOWER.
*Cercospora squalidula Pk. (C. squalida of R.). 1900 Penobscot.
*Erysiphe communis (Wallr.) Fr. 1899 Penobscot.
Puccinia rubigo-vera agropyri (Erikss.) Arth. A Maine.

Comptonia asplenifolia. See MYRICA ASPLENIFOLIA.

COPTIS TRIFOLIA (L.) Salisb. GOLDTHREAD
*Sphaeria coptis Schw. 1898 Penobscot.
*Vermicularia coptina Pk. 1898 Penobscot.

CORNUS sp. CORNEL, DOGWOOD
*Myxosporium nitidum Berk. & Curt. 1857 Cumberland.
Septoria cornicola Desm. C 1933 York.

CORNUS ALTERNIFOLIA L. DOGWOOD
*Fracchiaea callista (Berk. & Curt.) Sacc. Cumberland.
*Myxosporium nitidum Berk. & Curt. 1898 Piscataquis.

CORNUS CANADENSIS L. DWARF CORNEL
*Glomerularia corni Pk. 1898 Penobscot.
Puccinia porphyrogenita Curt. A Maine.

CORNUS STOLONIFERA Michx. RED OSIER DOGWOOD
*Phyllactinia suffulta (Reb.) Sacc. 1898 Penobscot.

CORYLUS sp. HAZELNUT, FILBERT
Gloeosporium coryli (Desm.) Sacc. B Maine.

CORYLUS CORNUTA Marsh. BEAKED HAZELNUT
(C. rostrata Ait.).
*Gnomonia coryli (Batsch) Auersw. 1859 Cumberland.
*Phyllactinia suffulta (Reb.) Sacc. 1900 Penobscot.

Corylus rostrata. See C. CORNUTA.

CRATAEGUS sp. HAWTHORN
Erwinia amylovora (Burr.) Winslow et al. (Bacillus amylovorus (Burr.) Trev.). C 1931 York.

CRATAEGUS COCCINEA L.
(C. modesta Sarg.).
Gymnosporangium clavipes Cke. & Pk. A Maine.

CRATAEGUS HOLMESIANA Ashe.
(C. tenuifolia Britt.).
Gymnosporangium clavipes Cke. & Pk. A Maine.

CRATAEGUS JONESAE Sarg.
Gymnosporangium clavipes Cke. & Pk. A Maine.

CRATAEGUS MACRACANTHA Ladd.
(C. macrantha of R.).
*Gymnosporangium clavipes Cke. & Pk. 1901 Cumberland.

Crataegus modesta. See C. COCCINEA.

CRATAEGUS ROTUNDIFOLIA Moench.
Gymnosporangium clavipes Cke. & Pk. A Maine.

Crataegus tenuifolia. See C. HOLMESIANA.

CRATAEGUS TOMENTOSA L.
Gymnosporangium clavipes Cke. & Pk. A Maine.
Gymnosporangium globosum Farl. A Maine.

CUCUMIS SATIVUS L. CUCUMBER
Alternaria sp. C 1914 Penobscot.
Cladosporium cucumerinum Ell. & Arth. C (general over range of host). P 1919.
Colletotrichum lagenarium (Pass.) Ell. & Hals. C 1917 Cumberland. P 1917.
Erwinia tracheiphila (EFS) Holland (Bacillus tracheiphilus EFS). P 1928. C (general over range of host).
Fusarium sp. C 1915 Kennebec. C 1934 York and Cumberland.
Pseudoperonospora cubensis (Berk. & Curt.) Rostew. C (general over range of host).

CUCUMIS MELO L. MUSKMELON
Pseudoperonospora cubensis (Berk. & Curt.) Rostew. C 1915 Cumberland.

CUCURBITA MAXIMA Duchesne SQUASH
Cladosporium cucumerinum Ell. & Arth. B Maine.
Erwinia tracheiphila (EFS) Holland (Bacillus tracheiphilus EFS). C 1914 Hancock, York.
Mycosphaerella citrullina (C. O. Smith) Gross. L 1925 York.
Sclerotinia sp. C 1928 Penobscot. P 1928.

CUCURBITA PEPO L. PUMPKIN
Erysiphe cichoracearum DC. C 1928 Penobscot. P 1928.

CUCURBITA PEPO CONDENSA L. SUMMER SQUASH
Botrytis sp. C 1910 Penobscot.
Cladosporium cucumerinum Ell. & Arth. C 1934 Penobscot. B Maine.

CYDONIA JAPONICA Pers. FLOWERING QUINCE
Gymnosporangium clavipes Cke. & Pk. B Maine.

CYDONIA OBLONGA Mill. QUINCE
(C. vulgaris (L.) Pers.).
Gymnosporangium sp. C (general over range of host).
Gymnosporangium clavariaeforme (Jacq.) DC. B Maine. A Maine.
Gymnosporangium clavipes Cke. & Pk. C 1930 Sagadahoc.

Cydonia vulgaris. See C. OBLONGA.

DACTYLIS GLOMERATA L. ORCHARD GRASS
Scolecotrichum sp. C 1913 Penobscot.

DAHLIA sp. DAHLIA
Sclerotinia sclerotiorum (Lib.) DBy. P 1925.

DALIBARDA REPENS L. DALIBARDA
*Septoria dalibardae Pk. 1898 Androscoggin.

DANTHONIA SPICATA (L.) Beauv. WILD OAT GRASS
Balansia hypoxylon Atk. L 1915 Oxford.
*Phyllachora graminis (Pers.) Fckl. 1895 Penobscot.

DELPHINIUM sp. LARKSPUR
Erysiphe polygoni DC. C 1933 Somerset. B Maine.
Phytomonas delphinii (EFS) Bergey et al. (Bacterium delphinii (EFS) Bryan). C 1927 Knox. P 1927. B Maine.

DELPHINIUM ELATUM L. LARKSPUR
*Erysiphe communis (Wallr.) Fr. 1857 Cumberland.

DENTARIA DIPHYLLA Michx. TOOTHWORT, PEPPER-ROOT
*Albugo candida (Pers.) Kuntze (Cystopus candidus (Pers.) Fr. of R.). Maine.

DIANTHUS CARYOPHYLLUS L. CARNATION
Alternaria sp. L 1925 Androscoggin.
Fusarium sp. L 1925 Androscoggin.
Uromyces caryophyllinus (Schrank) Wint. C 1908 Penobscot. P 1926. A Maine.

DIAPENSIA LAPPONICA L.
*Mycosphaerella pachyasca (Rostr.) Vestergren (Sphaerella pachyasca Rostr. of R.). 1898 Mt. Katahdin.

DIERVILLA LONICERA Mill. BUSH-HONEYSUCKLE
(D. trifida Moench.).
*Cercospora diervillae Ell. & Ev. 1900 Penobscot.
*Ramularia diervillae Pk. 1897 Cumberland.
*Septoria diervillicola Ell. & Ev. 1897 Cumberland.

Diervilla trifida Moench. See D. LONICERA.

DIRCA PALUSTRIS L. LEATHERWOOD
Puccinia extensicola hydnoidea (Berk. & Curt.) Arth. A Maine.

DISTICHLIS SPICATA (L.) Greene SPIKE GRASS
Puccinia aristidae Tracy. A Maine.

DOELLINGERIA UMBELLATA (Mill.) Nees.
(Aster umbellatus Mill.).
Coleosporium solidaginis (Schw.) Thüm. A Maine.
Puccinia extensicola Plowr. A Maine.

DRYOPTERIS INTERMEDIA (Muhl.) Gray SHIELD FERN, WOOD FERN
Milesia fructuosa Faull. A Maine.

ELEOCHARIS TENUIS (Willd.) Schultes. SPIKE RUSH
Puccinia eleocharidis Arth. A Maine.

EMPETRUM NIGRUM L. BLACK CROWBERRY
Chrysomyxa empetri (Pers.) Schroet. A Maine. H 1929 Head Light Island.

EPILOBIUM ADENOCAULON Haussk. WILLOW-HERB
Pucciniastrum pustulatum (Pers.) Diet. A Maine.

EPILOBIUM ANGUSTIFOLIUM L.
(Chamaenerion spicatum (Lam.) S. F. Gray).
Pucciniastrum pustulatum (Pers.) Diet. A Maine.

ERIGERON sp. FLEABANE
*Septoria erigerontea Sacc. 1899 Cumberland.

ERIOPHORUM TENELLUM Nutt. COTTON GRASS
Puccinia angustata Pk. A Maine.

ERIOPHORUM VIRGINICUM L. COTTON GRASS
Puccinia angustata Pk. A Maine.

EUPATORIUM PERFOLIATUM L. THOROUGHWORT
Puccinia eleocharidis Arth. A Maine.

Euphorbia cyparissias. See TITHYMALUS CYPARISSIAS.
Euthamia graminifolia. See SOLIDAGO GRAMINIFOLIA.

FAGUS sp. BEECH
*Diaporthe syngenesia (Fr.) Fckl. Cumberland.
*Hydnum ochraceum Pers. 1858 Cumberland.

Fagus atropunicea. See F. GRANDIFOLIA.
Fagus ferruginea. See F. GRANDIFOLIA.

FAGUS GRANDIFOLIA Ehrh. BEECH
(F.atropunicea Sudw.).
(F. ferruginea Ait.).
*Claudopus nidulans (Fr.) Pk. 1898 Penobscot.
*Diatrype disciformis (Hoffm.) Fr. Cumberland.
*Dichaena faginea (Pers.) Fr. 1897 Penobscot.
*Durella compressa (Pers.) Tul. 1857 Cumberland.
*Endobotryon elegans Berk. & Curt. Cumberland.
*Favolus boucheanus Klotzsch. 1858 Cumberland.
*Favolus europaeus Fr. 1899 Penobscot.
Fomes conchatus (Pers.) Gill. P 1936.
*Fomes fomentarius (L.) Gill. 1896 Penobscot.
Fomes igniarius (L.) Gill. P 1921.
*Hydnum coralloides Scop. 1898 Penobscot.
Hydnum ochraceum (Pers.) Fr. P 1936.
*Hypoxylon cohaerens (Pers.) Fr. 1859 Cumberland.
*Hypoxylon enteromelum (Schw.) Berk. Cumberland, York.
*Hypoxylon turbinulatum (Schw.) Berk. 1897 Penobscot.
*Libertella faginea Desm. 1896 Penobscot.
Nectria sp. P 1934.
?*Polyporus borealis Fr. 1898 Penobscot.
Polyporus brumalis (Pers.) Fr. P 1936.
Polyporus cinnabarinus (Jacq.) Fr. P 1936.
*Polyporus elegans (Bull.) Fr. 1896 Penobscot.
Polyporus hirsutus (Wulf.) Fr. H 1935 Penobscot.
*Polyporus radiatus (Sow.) Fr. (Polystictus radiatus of R). 1900 Penobscot.
*Sphaeria radicum Schw. Cumberland.
*Stereum complicatum Fr. 1857 Cumberland.

FESTUCA ELATIOR L. MEADOW FESCUE
Claviceps purpurea (Fr.) Tul. C 1910 Penobscot.
Puccinia coronata Cda. A Maine.

FILIPENDULA ULMARIA (L.) Maxim. QUEEN OF THE MEADOW
(Spiraea ulmaria L.).
*Hendersonia lirella Cke. 1887 Penobscot.

FRAGARIA sp. STRAWBERRY
Botrytis sp. C 1931 Maine.
Fusarium sp. C 1926 Hancock.
Marssonia potentillae (Desm.) Fisch. var. fragariae Sacc. C 1913 Penobscot.
Mycosphaerella fragariae (Tul.) Lindau. C (general).
Pezizella lythri (Desm.) Shear & B. O. Dodge. B Maine.
Sphaerotheca castagnei Lév. C (general).

FRAGARIA VIRGINIANA Duchesne. STRAWBERRY
?*Ceuthospora sp. 1900 Penobscot.
*Mycosphaerella fragariae (Tul.) Lindau (Sphaerella fragariae (Tul.) Sacc. of R.; Ramularia tulasnei Sacc.). 1898 Penobscot.

FRAXINUS sp. ASH
*Ceratostoma spina (Schw.) Sacc. 1858 Cumberland.
*Dendrophoma pruinosa (Fr.) Sacc. 1859 Cumberland.
?*Dinemasporium strigosum (Fr.) Sacc. York.
*Hysterographium fraxini (Pers.) DeNot. Cumberland.
*Microthyrium microscopicum Desm. 1857 Cumberland.
*Mycosphaerella maculiformis (Pers.) Johans. & Buchholtz (Sphaerella maculiformis (Pers.) Auersw. of R). Cumberland.
Phyllosticta fraxinicola (F. Currey) Sacc. C 1927 Penobscot.
*Poria nitida (Pers.) Cke. 1897 Cumberland.

FRAXINUS AMERICANA L. WHITE ASH
*Cytospora fugax (Bull.) Fr. (Cytispora in R). Cumberland.
*Piggotia fraxini Berk. & Curt. 1899 Cumberland.
Polyporus sulphureus (Bull.) Fr. P 1936.
*Sphaerographium fraxini (Pk.) Sacc. 1899 Penobscot.
*Xylaria clavulata (Schw.) Berk. & Curt. 1899 Penobscot.

FRAXINUS NIGRA Marsh. BLACK ASH
(F. sambucifolia Lam.).
*Daldinia concentrica (Bolt.) Ces. & DeNot. 1858 Cumberland.

Fraxinus sambucifolia. See F. NIGRA.

GAULTHERIA PROCUMBENS L. CHECKERBERRY
*Asterina gaultheriae Curt. 1898 Penobscot.
*Mycosphaerella gaultheriae (Cke. & Ell.) House (Sphaerella gaultheriae Cke. & Ell. of R). 1898 Penobscot.
*Phyllosticta gaultheriae Ell. & Ev. 1897 Penobscot.

GAYLUSSACIA BACCATA (Wang.) C. Koch. BLACK HUCKLEBERRY
Exobasidium vaccinii (Fckl.) Wor. P 1931. C 1933 Penobscot.
Microsphaera alni var. vaccinii (Schw.) Salm. P 1931.
Pucciniastrum myrtilli (Schum.) Arth. A Maine. P 1931.

GERANIUM sp. CRANESBILL
*Uromyces geranii (DC.) Fr. Cumberland.

GLADIOLUS sp. GLADIOLUS
Didymellina iridis (Desm.) Höhn. C 1930 Lincoln.
Fusarium sp. P 1925 Supp. 50.
Rhizoctonia sp. C 1928 Penobscot.

GROSSULARIA HIRTELLA (Michx.) Spach.
(Ribes hirtellum Michx.).
Puccinia caricis grossulariata Arth. A Maine.

GROSSULARIA RECLINATA (L.) Mill. EUROPEAN GOOSEBERRY
(Ribes grossularia L.).
Septoria grossulariae (Lib.) Westend. B Maine.

HELIANTHUS ANNUUS L. SUNFLOWER
Fusarium sp. C 1910 Penobscot.
Sclerotinia sclerotiorum (Lib.) DBy. C 1928 Penobscot.

HELIANTHUS TUBEROSUS L. JERUSALEM ARTICHOKE
Puccinia helianthi Schw. A Maine.

HERACLEUM LANATUM Michx. COW PARSNIP
*Phoma asteriscus Berk. 1895 Penobscot.

HIERACIUM CANADENSE Michx.
Puccinia hieracii (Schum.) Mart. A Maine.

HIERACIUM SCABRUM Michx.
Puccinia hieracii (Schum.) Mart. A Maine.

Hordeum sativum. See H. VULGARE.

HORDEUM VULGARE L. BARLEY.
(H. sativum Pers.).
Helminthosporium gramineum Rabh. C 1913 Penobscot. L 1933 Maine.
Puccinia graminis Pers. L 1920 Maine. P 1933.
Ustilago hordei (Pers.) Lagerh. C 1914 Penobscot.
Ustilago nuda (Jens.) Kellerm. & Sw. C 1913 Penobscot. L 1933 Maine.

HUMULUS LUPULUS L. HOP
Sphaerotheca humuli (DC.) Wint. B Maine.

HYDRANGEA SP. HYDRANGEA
Phyllosticta hydrangeae Ell. & Ev. C 1909 Penobscot. L 1927 Androscoggin.

HYPERICUM BOREALE (Britt.) Bickn. ST. JOHN'S-WORT
Uromyces hyperici (Spreng.) Curt. A Maine.

HYPERICUM CANADENSE L.
Uromyces hyperici (Spreng.) Curt. A Maine.

HYPERICUM MAJUS (Gray) Britt.
Uromyces hyperici (Spreng.) Curt. A Maine.

HYPERICUM MUTILUM L.
Uromyces hyperici (Spreng.) Curt. A Maine.

HYPERICUM PERFORATUM L. COMMON ST. JOHN'S-WORT
Uromyces hyperici (Spreng.) Curt. A Maine.

Hypericum virginicum. See TRIADENUM VIRGINICUM.

IBERIS sp. CANDYTUFT.
Sclerotinia sclerotiorum (Lib.) DBy. (S. libertiana Fckl.). C 1910 Hancock.

ILEX sp. HOLLY
*Rhytisma ilicis-canadensis Schw. B Maine.

ILEX VERTICILLATA (L.) Gray. WINTERBERRY
*Rhytisma prini (Schw.) Fr. 1859 Wells.

IRIS sp. FLEUR-DE-LIS
Heterosporium gracile (Wallr.) Sacc. C 1910 Hancock. L 1925 York. P 1925 Suppl. 37.

IRIS GERMANICA L. FLEUR-DE-LIS
Heterosporium gracile (Wallr.) Sacc. C 1914 Hancock.

IRIS VERSICOLOR L. LARGER BLUE FLAG
Puccinia iridis (DC.) Wallr. A Maine.

JUGLANS CINEREA L. BUTTERNUT
*Melanconium oblongum Berk. 1896 Penobscot.

JUNCUS sp. RUSH
*Uromyces junci (Desm.) L. Tul. (Puccinia junci of R). Cumberland.

JUNCUS MACER S. F. Gray.
(J. tenuis Auth. not Willd.).
*Uromyces junci (Desm.) L. Tul. Penobscot.
Uromyces silphii (Burr.) Arth. A Maine.

Juncus tenuis. See J. MACER.

JUNIPERUS sp. JUNIPER
Gymnosporangium davisii Kern. B Maine.
*Lophodermium juniperinum (Fr.) DeNot. Cumberland.

JUNIPERUS COMMUNIS L. COMMON JUNIPER
Gymnosporangium clavariaeforme (Jacq.) DC. A Maine.
Gymnosporangium clavipes Cke. & Pk. A Maine.

JUNIPERUS COMMUNIS L. var. DEPRESSA Pursh. PROSTRATE JUNIPER
(J. sibirica Burgsd.).
Gymnosporangium aurantiacum Chev. H 1936 Penobscot.
Gymnosporangium clavariaeforme (Jacq.) DC. P 1936.
Gymnosporangium clavipes Cke. & Pk. P 1936. A Maine.
Gymnosporangium davisii Kern. A Maine.

Juniperus sibirica Burgsd. See J. COMMUNIS var. DEPRESSA.

JUNIPERUS VIRGINIANA L. var. CREBRA Fernald & Griscom. RED CEDAR
(J. virginiana L.).
*Gymnosporangium clavipes Cke. & Pk. 1900 Penobscot.
Gymnosporangium globosum Farl. P 1936. A Maine.
Gymnosporangium juniperi-virginianae Schw. P 1936. A Maine.
Gymnosporangium nidus-avis Thax. P 1936. A Maine.

KALMIA ANGUSTIFOLIA L. LAMBKILL
*Mycosphaerella colorata (Pk.) Earle (Sphaerella colorata Pk. of R).
1898 Penobscot.
Venturia kalmiae Pk. C Hancock.

Kalmia glauca. See K. POLIFOLIA.

KALMIA POLIFOLIA Wang. PALE LAUREL
(K. glauca Ait.).
*Dothidella kalmiae (Pk.) Sacc. 1899 Penobscot.

LACTUCA INTEGRIFOLIA Bigel. HORSE-WEED
*Septoria lactucicola Ell. & Martin. 1898 Cumberland.

LACTUCA SATIVA L. LETTUCE
Botrytis sp. C 1910 Kennebec.
Sclerotinia sclerotiorum (Lib.) DBy. C 1910 Penobscot.

Larix americana. See L. LARICINA.

LARIX LARICINA (Duroi) Koch. TAMARACK
(L. americana Michx.).
Melampsora bigelowii Thüm. A Maine.

LATHYRUS ODORATUS L. SWEET PEA
Alternaria sp. C 1925 Cumberland.
Fusarium sp. C (general).
Glomerella cingulata (Ston.) Spauld. & Schrenk. C 1928 Hancock.
Rhizoctonia sp. L 1926 Aroostook.

LEDUM GROENLANDICUM Oeder. LABRADOR TEA
(L. latifolium Ait.).
Chrysomyxa ledicola (Pk.) Lagerh. A Maine.

Ledum latifolium. See L. GROENLANDICUM.

LEONTODON AUTUMNALIS L. FALL DANDELION
(Apargia autumnalis (L.) Hoffm.).
Puccinia hieracii (Schum.) Martius. A Maine.

LIGUSTICUM SCOTHICUM L. SCOTCH LOVAGE
Aecidium ligustici Ell. & Ev. A Maine.

LILIUM CANADENSE L. WILD YELLOW LILY
Uromyces holwayi Lagerh. A Maine.

LILIUM CANDIDUM L. MADONNA LILY
Botrytis sp. L 1925 Waldo.

LIMONIUM CAROLINIANUM (Walt.) Britt. MARSH ROSEMARY
Uromyces limonii (DC.) Lév. A Maine.

LOBELIA INFLATA L. INDIAN TOBACCO
*Septoria lobeliae Pk. 1895 Cumberland.

LONICERA sp. HONEYSUCKLE
Leptothyrium periclymeni (Desm.) Sacc. C 1915 Hancock.
Microsphaera dubyi Lév. C 1914 Somerset.

LONICERA TATARICA L. TARTARIAN HONEYSUCKLE
*Microsphaera dubyi Lév. 1900 Penobscot.

LORINSERIA AREOLATA (L.) Presl. CHAIN FERN
(Woodwardia areolata (L.) Moore).
Uredinopsis mirabilis (Pk.) Magn. A Maine.

LUZULA CAMPESTRIS (L.) DC. var. MULTIFLORA (Ehrh.) Celak. WOOD RUSH
(L. intermedia (Thuill.) Nels.).
Puccinia obscura Schroet. A Maine.

Luzula intermedia. See L. CAMPESTRIS var. MULTIFLORA.

LYCOPERSICUM ESCULENTUM Mill. TOMATO
Alternaria solani (Ell. & Martin) Jones & Grout. C 1910 Penobscot, York. P 1918.
*Botryosporium pulchrum Cda. 1898 Orono.
Cladosporium fulvum Cke. C 1915 Sagadahoc, Penobscot.
Fusarium sp. C 1927 Kennebec.
*Gloeosporium phomoides Sacc. Penobscot.
Glomerella cingulata (Ston.) Spauld. & Schrenk. C 1927 Penobscot. P 1927.
Macrosporium sp. C 1929 Penobscot.
Phoma destructiva Plow. C 1927 Penobscot. P 1927 Suppl. 61.
Phytophthora infestans (Mont.) DBy. L 1927 (general).
Rhizoctonia sp. L 1927 Kennebec.
Sclerotinia sp. L 1933 Maine.
Septoria lycopersici (Speg.) Sacc. C (general). P 1918.
Verticillium albo-atrum Reinke & Berth. C 1931 Cumberland.

LYCOPUS AMERICANUS Muhl. WATER HOREHOUND
Puccinia angustata Pk. A Maine.

LYCOPUS VIRGINICUS L. BUGLE WEED
Puccinia angustata Pk. A Maine.

LYONIA LIGUSTRINA (L.) DC. MALEBERRY
(Andromeda ligustrina).
*Cucurbitaria longitudinalis Pk. York.
*Polyporus vaporarius (Pers.) Fr. (Poria vaporaria of R). 1859 York.
Rhytisma decolorans Fr. B Maine.

MEDICAGO SATIVA L. ALFALFA
Macrosporium sp. B Maine.
Pseudopeziza medicaginis (Lib.) Sacc. C 1911 York (common in most seasons). P 1917.

MENTHA ARVENSIS var. CANADENSIS (L.) Briquet. MINT
(M. canadensis L.).
*Phyllosticta decidua Ell. & Kellerm. 1899 Penobscot.
Puccinia menthae Pers. A Maine.
*Ramularia menthicola Sacc. 1891 Penobscot.

MENTHA CARDIACA Gerarde. MINT
(M. sativa L.).
*Phyllosticta decidua Ell. & Kellerm. 1900 Cumberland.
Puccinia menthae Pers. A Maine.

Mentha sativa. See M. CARDIACA.

MITELLA NUDA L.
Puccinia heucherae (Schw.) Diet. A Maine.

MOEHRINGIA LATERIFLORA (L.) Fenzl. SANDWORT
(Arenaria lateriflora L.).
Puccinia arenariae (Schum.) Wint. A Maine.

MONESES UNIFLORA (L.) Gray. ONE-FLOWERED PYROLA
Chrysomyxa pyrolae (DC.) Rostr. A Maine.

MUHLENBERGIA SYLVATICA Torr.
*Phyllachora graminis (Pers.) Fckl. 1899 Cumberland.

MYRICA ASPLENIFOLIA L. SWEET FERN
(Comptonia asplenifolia Ait.).
Cronartium comptoniae Arth. A Maine.

MYRICA GALE L. SWEET GALE
Cronartium comptoniae Arth. A Maine.
Gymnosporangium ellisii (Berk.) Farl. H 1936 Knox.
?*Ovularia monilioides Ell. & Mart. 1895 Cumberland.

Nemopanthus fascicularis. See N. MUCRONATA.

NEMOPANTHUS MUCRONATA (L.) Trel. MOUNTAIN HOLLY
(N. fascicularis Raf.).
*Rhytisma ilicis-canadensis Schw. 1893 Penobscot.

NUPHAR ADVENA Ait. YELLOW POND LILY
*Sphaerella paludosa Ell. & Ev. 1900 Penobscot.

NYMPHAEA ODORATA Ait. SWEET SCENTED WATER LILY
(Castalia odorata (Ait.) W. & W.).
*Cercospora nymphaeacea Cke. & Ell. 1900 Penobscot.

OENOTHERA BIENNIS L. EVENING PRIMROSE
Puccinia extensicola oenotherae (Mont.) Arth. A Maine.
Uromyces plumbarius Pk. A Maine.

OENOTHERA FRUTICOSA L. SUNDROPS
*Septoria oenotherae West. 1898 Penobscot.

ONOCLEA SENSIBILIS L. SENSITIVE FERN
Uredinopsis mirabilis (Pk.) Magn. A Maine.

OSMUNDA sp. FLOWERING FERN
*Leptostroma filicinum Fr. 1858 Cumberland.

OSMUNDA CINNAMOMEA L. CINNAMON FERN
Uredinopsis osmundae Magn. A Maine.
?*Uredo polypodii (Pers.) DC. 1859 York.

OSMUNDA CLAYTONIANA L. FLOWERING FERN
Uredinopsis osmundae Magn. A Maine.

OSMUNDA REGALIS L. var. SPECTABILIS (Willd.) Gray. FLOWERING FERN
Uredinopsis osmundae Magn. A Maine.

OSTRYA VIRGINIANA (Mill.) K. Koch. HOP HORNBEAM
(O. virginica Willd.).
?*Caldesiella ferruginosa (Fr.) Sacc. 1859 Cumberland.
*Gnomoniella fimbriata (Pers.) Sacc. 1859 Cumberland.

Ostrya virginica. See O. VIRGINIANA.

OXALIS STRICTA L. YELLOW OXALIS
*Microsphaera russellii G. W. Clinton. 1900 Penobscot.
*Phyllachora oxalina Ell. & Ev. 1900 Penobscot.

PAEONIA sp. PEONY
Alternaria sp. C 1925 Aroostook.
Botrytis sp. C 1917 Cumberland. P 1927.
Septoria paeoniae Westend. C 1910 Hancock.

PAPAVER NUDICAULE L. ICELAND POPPY
Rhizoctonia sp. C 1910 Hancock.

PARTHENOCISSUS QUINQUEFOLIA (L.) Planch. VIRGINIA CREEPER
(Ampelopsis quinquefolia).
*Plasmopara viticola (Berk. & Curt.) Berl. & DeToni. 1900 Penobscot.

PARTHENOCISSUS TRICUSPIDATA Planch. BOSTON IVY
(Ampelopsis tricuspidata Planch.).
Botrytis sp. C 1931 Penobscot.
Guignardia bidwellii (Ell.) Viala & Ravaz. C 1931 Hancock. P 1931.

PASTINACA SATIVA L. PARSNIP
Cercospora apii Fres. var. pastinacae Sacc. C 1928 Kennebec.

PEDICULARIS CANADENSIS L. COMMON LOUSEWORT
*Puccinia clintonii Pk. 1893 Penobscot.

PELARGONIUM sp. GERANIUM
?Bacillus caulivorus Prill. & Del. L 1924 Oxford.

PENTSTEMON LAEVIGATUS Ait. BEARD-TONGUE
*Septoria pentstemonis Ell. & Ev. 1899 Cumberland.

PHASEOLUS VULGARIS L. BEAN

Alternaria fasciculata (Cke. & Ell.) Jones & Grout. C 1930 Kennebec.

Botrytis cinerea Pers. C 1928 Hancock.

Colletotrichum lindemuthianum (Sacc. & Magn.) Briosi & Cav. C (general). P 1918.

Epicoccum sp. C 1909 Penobscot.

Fusarium sp. C 1925 Penobscot.

Fusarium martii Appel. & Woll. var. phaseoli Burkh. C 1928 Hancock. P 1925. L 1925 Penobscot.

Phytomonas flaccumfaciens (Hedges) Bergey et al. (Bacterium flaccumfaciens Hedges). C 1928 Kennebec.

Phytomonas phaseoli (EFS) Bergey et al. (Bacterium phaseoli EFS). C (general). P 1918.

Rhizoctonia sp. C 1917 Androscoggin.

Sclerotinia sp. C 1915 Franklin. L 1926 Penobscot.

Uromyces phaseoli typica Arth. C (general). P 1917. L 1925 Kennebec. A Maine.

PHILADELPHUS CORONARIUS L. MOCK ORANGE

*Cyphella pezizoides Zopf. 1896 Penobscot.

*Diplodia microspora Berk. & Curt. 1897 Penobscot.

*Gibberella pulicaris (Fr.) Sacc. Cumberland.

*Nectria cinnabarina (Tode) Fr. 1897 Penobscot.

*Phoma landeghemiae (Nits.) Sacc. 1897 Penobscot.

PHLEUM PRATENSE L. TIMOTHY

*Epichloë typhina (Pers.) Tul. 1890 Penobscot.

*Phyllachora graminis (Pers.) Fckl. 1895 Penobscot.

Puccinia graminis phlei-pratensis (Erikss. & Henn.) Stak. & Piem. A Maine. C 1914 Penobscot.

Scolecotrichum graminis Fckl. C 1913 Penobscot.

PHLOX sp. PHLOX

Erysiphe sp. C 1921 Sagadahoc. L 1926 Knox.

Septoria sp. C 1927 Cumberland.

Septoria phlogis Sacc. & Speg. C 1915 Hancock.

Verticillium glaucum Bon. C 1925 Aroostook.

PHLOX PANICULATA L. GARDEN PHLOX

*Erysiphe phlogis Schw. 1859 Cumberland.

*Septoria divaricata Ell. & Ev. 1897 Penobscot.

PICEA sp. SPRUCE

Ascochyta piniperda Lindau. P 1932.

Chrysomyxa ledicola (Pk.) Lagerh. C 1930 Washington.

PICEA ABIES Karst. NORWAY SPRUCE
(P. excelsa Link.).
*Cenangium abietis var. strobilinum Alb. & Schw. 1889 Penobscot.
*Phoma strobiligena Desm. 1898 Penobscot.

Picea canadensis. See P. GLAUCA.
Picea excelsa. See P. ABIES.

PICEA GLAUCA Voss. WHITE SPRUCE
(P. canadensis (Mill.) B.S.P.).
Chrysomyxa pyrolae (DC.) Rostr. (Melampsoropsis pyrolae of B.). A Maine. B Maine.
Lenzites saepiaria (Wulf.) Fr. P 1936.
Merulius tremellosus (Schrad.) Fr. P 1936.
Polyporus abietinus (Dicks.) Fr. P 1936.

PICEA MARIANA (Mill.) BSP. BLACK SPRUCE
(P. nigra (Ait.) Link.).
Chrysomyxa cassandrae (Pk. & G. W. Clinton) Tranz. A Maine.
Chrysomyxa ledicola (Pk.) Lagerh. (Melampsoropsis ledicola of B.). A Maine. B Maine.
Chrysomyxa pyrolae (DC.) Rostr. A Maine.
Fomes annosus (Fr.) Cke. B Maine.
Fomes pini (Thore) Lloyd (Trametes pini (Brot.) Fr. of B.). B Maine.
Fomes pinicola (Swartz.) Cooke. B Maine.
*Fomes subroseus (Weir) Overh. (Fomes carneus of R.). 1895 Somerset.
*Lophodermium pinastri (Schrad.) Chev. 1899 Penobscot.
Melampsorella cerastii (Pers.) Schroet. A Maine.
*Peniophora cinerea (Fr.) Cke. 1898 Cumberland.
?*Stilbum glomerulisporum Ell. & Ev. 1896 Penobscot.

Picea nigra. See P. MARIANA.

PICEA PUNGENS Engelm. BLUE SPRUCE
Chrysomyxa ledicola (Pk.) Lagerh. A Maine. C 1930 Piscataquis. P 1930.

PICEA RUBENS Sarg. RED SPRUCE
(P. rubra (Duroi) Dietr.).
Chrysomyxa ledicola (Pk.) Lagerh. (Melampsoropsis ledicola of B.). B Maine.
Chrysomyxa pyrolae (DC.) Rostr. A Maine.
Fomes annosus (Fr.) Cke. B Maine.
Fomes pini (Thore) Lloyd (Trametes pini (Brot.) Fr. of B). B Maine.
Fomes pinicola (Swartz) Cke. B Maine. P 1936.
Fomes subroseus (Weir) Overh. P 1936.
Melampsorella cerastii (Pers.) Schroet. A Maine.
Poria selecta Karst. P 1936.

Picea rubra. See P. RUBENS.

PINUS sp. PINE
*Agyrium rufum (Pers.) Fr. 1880 York.
*Amphisphaeria applanata (Fr.) Ces. & DeNot. York.
*Aposphaeria hemisphaerica (Alb. & Schw.) Sacc. 1859 York.
*Aposphaeria hysterella Sacc. York.
*Capnodium pini Berk. & Curt. Penobscot.
*Cenangium abietis Pers. 1887 Penobscot.
?*Cucurbitaria elongata (Fr.) Grev. Cumberland, York.
*Dendrodochium compressum Ell. & Ev. 1897 Penobscot.
*Ganoderma lucidum (Leyss.) Karst. (Fomes lucidus (Leyss.) Fr. of R.). 1895 Cumberland.
*Hydnum pithyophilum Berk. & Curt. York.
Hypoderma strobicola Tub. P 1922 Suppl. 29.
*Lecanidion fusco-atrum Rehm. York.
*Nectria cucurbitula (Tode) Fr. York.
*Pezizella vulgaris (Fr.) Sacc. 1880 York.
*Polyporus weinmanni Fr. 1896 Penobscot.
*Poria attenuata Pk. 1895 Piscataquis.
*Poria farinella Fr. Maine.
*Poria violacea Fr. 1895 Penobscot.
Rhizoctonia sp. C 1914 Penobscot. P 1921 Suppl. 23.
*Stereum imbricatum (Schw.) Lév. 1880 York.
*Stereum pini Fr. York.
*Trametes inodora Fr. 1890 Penobscot.
?*Tubercularia dubia Link. 1860 York.
*Valsa colliculus (Wormsk.) Berk. York.

PINUS BANKSIANA Lamb. NORTHERN SCRUB PINE
Cronartium comptoniae Arth. A Maine.
Cronartium quercuum (Berk.) Miyabe (C. cerebrum of P.). P 1918 Suppl. 5.

PINUS RESINOSA Ait. RED PINE
Coleosporium solidaginis (Schw.) Thüm. A Maine. C 1932 Kennebec. P 1932.
Cronartium comptoniae Arth. A Maine.

PINUS RIGIDA Mill. PITCH PINE
Coleosporium solidaginis (Schw.) Thüm. A Maine. P 1933.
Cronartium comptoniae Arth. A Maine.
*Dasyscypha ellisiana (Rehm) Sacc. 1899 Cumberland.
Fomes pini (Thore) Lloyd (Trametes pini (Brot.) Fr. of B). B Maine.

PINUS STROBUS L. WHITE PINE
Caliciopsis pinea Pk. P 1920.
*Calocera cornea Fr. 1900 Cumberland.
Coccomyces sp. P 1921 Suppl. 23.

PINUS STROBUS L. (Continued)

*Coccomyces pini (Fr.) Karst. 1899 Cumberland.
Cronartium ribicola J. C. Fischer. C 1916 Cumberland (general, however, over the State). A Maine. B Maine.
Cryptosporium pini Berk. & Curt. P 1922 Suppl. 29.
Fomes pini (Thore) Lloyd. P 1936.
*Fomes pinicola (Swartz) Cke. 1896 Penobscot.
*Lophodermium pinastri (Schrad.) Chev. 1898 Penobscot.
Polyporus schweinitzii Fr. P 1936. B Maine.
Septobasidium pinicola Snell. P 1936.
*Thelephora laciniata Pers. 1860 York.
*Tryblidiopsis pinastri (Pers.) Karst. 1858 Cumberland.

PINUS SYLVESTRIS L. SCOTCH PINE

Cronartium comptoniae Arth. A Maine.
*Cytospora pinastri Fr. 1900 Penobscot.
*Hydnum auriscalpium L. 1897 Penobscot.
*Phoma acuum Cke. & Ell. 1900 Penobscot.
*Phoma strobiligena Desm. 1898 Penobscot.
*Tryblidiopsis pinastri (Pers.) Karst. 1900 Penobscot.

PISUM SATIVUM L. PEA

Ascochyta pisi Lib. C (general).
Botrytis sp. C 1925 Waldo.
Cladosporium pisicola Snyder. P 1936.
Colletotrichum pisi Pat. C 1930 Oxford. P 1930.
*Erysiphe communis (Wallr.) Fr. 1886 Penobscot.
Erysiphe polygoni DC. C 1935 Somerset.
Fusarium sp. C (general). P 1927. L 1918 Maine.
Glomerella cingulata (Ston.) Spauld. & Schrenk. P 1928.
Mycosphaerella pinodes (Berk. & Blox.) Stone. C 1916 (general). P 1919 Suppl. 3.
Peronospora viciae (Berk.) D By. C 1925 Waldo.
Rhizoctonia sp. C 1929 Cumberland. L 1933 Somerset.
Septoria pisi Westend. C 1913 Penobscot.
Stemphylium polymorphum Bon. C 1925 Waldo.
Uromyces fabae (Pers.) D By. C 1934 Kennebec, York, Penobscot.

PLANTAGO MAJOR L. COMMON PLANTAIN

*Cercospora plantaginis Sacc. 1900 Penobscot.
*Ramularia plantaginis Ell. & Mart. 1899 Cumberland.

POA PRATENSIS L. KENTUCKY BLUEGRASS

*Erysiphe graminis DC. (Oidium monilioides Link). 1900 Cumberland.
Puccinia poae-sudeticae (Westend.) Jørstad. A Maine.

POLYGALA sp. MILKWORT

*Puccinia pyrolae Cke. Cape Elizabeth.

POLYGALA PAUCIFOLIA Willd. FRINGED POLYGALA
Puccinia pyrolae Cke. A Maine.

POLYGONATUM BIFLORUM (Walt.) Elliot. SOLOMON'S SEAL
*Vermicularia polygonati Schw. 1898 Androscoggin.

POLYGONUM AMPHIBIUM L.
(P. hartwrightii Gray).
Puccinia polygoni amphibii Pers. A Maine.

POLYGONUM AVICULARE L. KNOTWEED
Uromyces polygoni (Pers.) Fckl. A Maine.

POLYGONUM COCCINEUM Muhl.
Puccinia polygoni amphibii persicariae (Strauss) Arth. A Maine.

POLYGONUM CONVOLVULUS L. BLACK BINDWEED
*Ustilago anomala Kunze. 1899 Oxford.

POLYGONUM FOWLERI Robinson.
Uromyces polygoni (Pers.) Fckl. A Maine.

Polygonum hartwrightii. See P. AMPHIBIUM.

POLYGONUM MUHLENBERGII (Meissn.) Wats.
Puccinia polygoni amphibii persicariae (Strauss.) Arth. A Maine.

POLYGONUM PERSICARIA L. LADY'S THUMB
*Septoria polygonorum Desm. 1898 Androscoggin.

POLYPODIUM VIRGINIANUM L.
(P. vulgare L.).
Milesia polypodophila (Bell) Faull. A Maine.

Polypodium vulgare. See P. VIRGINIANUM.

POLYSTICHUM ACROSTICHOIDES (Michx.) Schott. CHRISTMAS FERN
Taphrina filicina Rostr. P 1929.

POPULUS sp. POPLAR
*Cytospora leucosperma (Pers.) Fr. (Cytispora of R.). Cumberland.
Hypoxylon pruinatum (Klotzsch) Cke. B Maine. P 1925 Suppl. 50.
Polyporus dryophilus Berk. B Maine.
*Polyporus pargamenus Fr. (Polystictus pergamenus of R). Cumberland.
*Stereum rufum Fr. (Hypocrea richardsonii Berk. & Mont. of R). 1857 Cumberland.
Taphrina aurea (Pers.) Fr. B Maine.
*Tympanis conspersa Fr. 1859 Cumberland.
Venturia tremulae Aderh. B Maine.

POPULUS ALBA L. WHITE POPLAR
Fusicladium radiosum (Lib.) Lindr. C 1919 Waldo. P 1919 Suppl. 2.

POPULUS BALSAMIFERA L. COTTONWOOD
(P. deltoides Marsh., P. monilifera Ait.).
Melampsora medusae Thüm. A Maine.
Polyporus adustus (Willd.) Fr. P 1936.
Polyporus velutinus Fr. P 1936.
Sclerotium bifrons Ell. & Ev. L 1920 Aroostook. Det. by G. G. Hahn.

Populus deltoides. See P. BALSAMIFERA.

POPULUS GRANDIDENTATA Michx. LARGE-TOOTHED ASPEN
Melampsora medusae Thüm. C 1908 Penobscot.
Polyporus fumosus (Pers.) Fr. P 1936.
Poria punctata Fr. P 1936.
Radulum orbiculare Fr. P 1936.

Populus monilifera. See P. BALSAMIFERA.

POPULUS TACAMAHACA Mill. BALSAM POPLAR
Melampsora medusae Thüm. C 1908 Penobscot.

POPULUS TREMULOIDES Michx. AMERICAN ASPEN
*Cenangium populneum (Pers.) Rehm. 1898 Penobscot.
*Cytospora chrysosperma (Pers.) Fr. (Cytispora of R.). 1890 Penobscot.
*Cytospora nivea (Hoffm.) Sacc. 1900 Penobscot.
Fomes igniarius (L.) Gill. P 1921 Suppl. 23.
Lenzites betulina (L.) Fr. P 1936.
Melampsora abietis-canadensis (Farl.) C. A. Ludwig. A Maine.
Polyporus hirsutus (Wulf.) Fr. P 1936.
Polyporus picipes Fr. P 1936.
Sclerotium bifrons Ell. & Ev. L 1920 Aroostook. Det. by G. G. Hahn.
*Stereum rufum Fr. (Hypocrea richardsonii Berk. & Mont. of R.). 1898 Penobscot.
*Valsa nivea (Hoffm.) Fr. 1880 York.

POTENTILLA CANADENSIS L. CINQUEFOIL
Frommea obtusa (Strauss.) Arth. A Maine.
*Phragmidium potentillae (Pers.) Karst. 1898 Penobscot.

Potentilla littoralis. See P. PENSYLVANICA.

POTENTILLA MONSPELIENSIS L.
Phragmidium potentillae (Pers.) Karst. A Maine.

Potentilla pectinata. See P. PENSYLVANICA.

POTENTILLA PENSYLVANICA[2/] L.
(P. pectinata Raf., P. littoralis Rydb.).
Phragmidium potentillae (Pers.) Karst. A Maine.

Potentilla tridentata. See SIBBALDIOPSIS TRIDENTATA.

PRENANTHES SERPENTARIA Pursh. LION'S-FOOT
*Septoria nabali Berk. & Curt. 1899 Cumberland.

PRUNUS sp. CHERRY (See below for PLUM).
Botrytis sp. C 1915 Knox.
Cladosporium carpophilum Thüm. C 1916 Franklin, Penobscot, Washington. B Maine.
Dibotryon morbosum (Schw.) Theiss. & Syd. (Plowrightia morbosa (Schw.) Sacc.). C (general over range of host). P 1919.
Podosphaera oxyacanthae (DC.) D By. C 1910 Kennebec.
*Poria inermis Ell. & Ev. 1897 York.
Sclerotinia fructicola (Wint.) Rehm. C 1915 Cumberland.
*Solenia anomala (Pers.) Fr. 1892 Penobscot.

PRUNUS sp. PLUM (See above for CHERRY).
Cladosporium sp. C 1932 Hancock.
Cladosporium carpophilum Thüm. C 1920 Aroostook. L 1921 Aroostook.
Dibotryon morbosum (Schw.) Theiss. & Syd. (Plowrightia morbosa (Schw.) Sacc.). C 1908 (general over range of host).
Exoascus pruni (Berk.) Fckl. C (general over range of host).
Glomerella cingulata (Ston.) Spauld. & Schrenk. C 1931 Kennebec.
Podosphaera oxyacanthae (DC.) D By. C 1910 Penobscot.
Sclerotinia fructicola (Wint.) Rehm. C 1911 (general over range of host).

PRUNUS CERASUS L. SOUR CHERRY
*Sporocybe persicae (Schw.) Fr. Cumberland.

PRUNUS PENNSYLVANICA L. f. PIN CHERRY
*Dermatea cerasi (Pers.) Fr. 1856 Piscataquis.
Dibotryon morbosum (Schw.) Theiss. & Syd. (Plowrightia morbosa (Schw.) Sacc.). B Maine.

PRUNUS PERSICA (L.) Stokes. PEACH
Exoascus deformans (Berk.) Fckl. C 1909 (general over range of host). P 1917.

PRUNUS SALICINA Lindl. JAPANESE PLUM
Phytomonas pruni (EFS) Bergey et al. (Bacterium pruni EFS). C 1933 Cumberland.

2/ On single "N" see discussion by Fernald in Rhodora 37: 286-292, 1935.

PRUNUS SEROTINA Ehrh. WILD BLACK CHERRY
*Cercospora circumscissa Sacc. 1899 Cumberland.
Polyporus dryophilus var. vulpinus (Fr.) Overh. P 1936.
Polyporus tulipiferae (Schw.) Overh. P 1936.
Poria prunicola (Murr.) Sacc. & Trotter. P 1936.

PRUNUS VIRGINIANA L. CHOKE CHERRY
Cercospora circumscissa Sacc. C 1913 Kennebec.
*Podosphaera oxyacanthae (DC.) D By. Penobscot.

PTERIDIUM AQUILINUM (L.) Kuhn. BRAKE, BRACKEN
(Pteris aquilina L.).
*Leptostroma pteridis Ehrenb. 1857 Cumberland.
*Phyllachora pteridis (Reb.) Fckl. Hancock.

Pteris aquilina. See PTERIDIUM AQUILINUM.

PYROLA sp. WINTERGREEN
Chrysomyxa pyrolae (DC.) Rostr. C 1930 Cumberland.

PYROLA ELLIPTICA Nutt. SHIN-LEAF
Chrysomyxa pyrolae (DC.) Rostr. A Maine.

PYROLA ROTUNDIFOLIA L.
*Chrysomyxa pyrolae (DC.) Rostr. 1859 York.

Pyrus arbutifolia. See ARONIA ARBUTIFOLIA var. ATROPURPUREA.

PYRUS COMMUNIS L. PEAR
Erwinia amylovora (Burr.) Winslow et al. (Bacillus amylovorus (Burr.) Trev.). C 1910 (general over range of host). P 1922.
Fabraea maculata Atk. C 1930 Penobscot.
Phytomonas tumefaciens (EFS & Town.) Bergey (Bacterium tumefaciens EFS & Town.). C 1912 penobscot.
Venturia pirina Aderh. C 1911 (general over range of host). P 1921.

PYRUS MALUS L. APPLE
Alternaria sp. L 1925 York.
Alternaria mali Roberts. C 1929 Kennebec, 1933 Oxford.
Botrytis cinerea Pers. C 1926 Penobscot.
Cephalothecium roseum (Fr.) Cda. C 1908 Cumberland. L 1927 York.
Coryneum foliicolum Fckl. C Cumberland.
Cylindrosporium sp. L 1912 York.
Cytospora sp. C 1910 Piscataquis. L 1914 Oxford.
Erwinia amylovora (Burr.) Winslow et al. (Bacillus amylovorus (Burr.) Trev.). C 1911 (Common in some seasons in southwest part of State). P 1917.

PYRUS MALUS L. (continued)

Fomes igniarius (L.) Gill. H 1936 Penobscot.
Fusarium sp. C 1910 York.
Gloeodes pomigena (Schw.) Colby (Phyllachora pomigena (Schw.) Sacc.). C 1908 Kennebec. L 1927 York.
*Gloeosporium versicolor Berk. & Curt. 1896 Penobscot.
Glomerella cingulata (Ston.) Spauld. & Schrenk. C 1910 (general).
*Glonium lineare (Fr.) DeNot. 1860 York.
Gymnosporangium sp. C 1910 York. L 1925 York.
Gymnosporangium clavipes Cke. & Pk. (G. germinale Kern). P 1931 Suppl. 84.
Gymnosporangium globosum Farl. C 1910 York. P 1931 Suppl. 84. A Maine.
Gymnosporangium juniperi-virginianae Schw. P 1917. C 1929 Somerset. L 1920 Lincoln. A Maine.
*Hydnum mucidum Pers. 1859 York.
Leptothyrium pomi (Mont. & Fr.) Sacc. C 1915 (general).
*Melanconis stilbostoma (Fr.) Tul. Cumberland, Wells.
Mycosphaerella pomi Pass. (Cylindrosporium pomi Brooks, Phoma pomi Pass.). C 1908 (general). B Maine.
Myxosporium corticola Edg. C 1910 Oxford.
Nectria cinnabarina (Tode) Fr. C 1925 Kennebec.
Nectria ditissima Tul. C 1913 Penobscot. P 1919 Suppl. 1.
Nectria galligena Bres. B Maine. P 1934.
Penicillium sp. C 1910 (general).
Penicillium expansum (Link) Thom. C 1908 (general).
Peniophora cinerea (Fr.) Cke. P 1936.
Phoma mali Schulz. & Sacc. C 1910 Kennebec, Penobscot. L 1925 Kennebec. B Maine.
Physalospora obtusa (Schw.) Cke. (P. cydoniae Am. Auth.; P. malorum Shear et al; Sphaeropsis malorum Pk.). C 1908 (general). L 1924 Penobscot. P 1919.
Phytomonas tumefaciens (EFS & Town.) Bergey et al. (Bacterium tumefaciens EFS & Town). C 1911 Penobscot. L 1927 Washington.
Podosphaera oxyacanthae (DC.) D By. C 1911 Franklin, Oxford, Kennebec.
*Polyporus admirabilis Pk. Cumberland.
Schizophyllum commune Fr. P 1936.
Sclerotinia fructicola (Wint.) Rehm. C 1910 Penobscot. L 1925 York.
Stereum purpureum (Pers.) Fr. C 1918 Cumberland. P 1919 Suppl. 1. H 1934 Penobscot, Kennebec. B Maine.
*Valsa ambiens (Pers.) Fr. 1880 York.
Valsa leucostoma (Pers.) Fr. C 1914 Oxford.
Venturia inaequalis (Cke.) Aderh. C 1908 (general). P 1917.

QUERCUS sp. OAK
*Cladosporium epiphyllum (Pers.) Fr. Cumberland.
*Diatrype obesa Berk. & Curt. (Valsaria quadrata (Schw.) Sacc. of R). 1878 Cumberland.
*Favolus alutaceus Berk. & Mont. Cumberland.
*Helotium herbarum (Pers.) Fr. 1859 Cumberland.
*Hypoxylon marginatum (Schw.) Berk. Cumberland.
Microsphaera densissima (Schw.) Cke. & Pk. C 1913 Hancock.
*Polyporus sulphureus (Bull.) Fr. 1897 Kennebec.
*Ustulina vulgaris Tul. 1880 York.

QUERCUS ALBA L. WHITE OAK
Favolus alveolaris (DC.) Quél. P 1936.
Stereum frustulosum Fr. P 1936.
Stereum rameale Schw. P 1936.

Quercus borealis. See Q. RUBRA.

QUERCUS ILICIFOLIA Wang. BEAR OAK
*Marssonia martini Sacc. & Ell. 1899 Cumberland.

QUERCUS RUBRA L. NORTHERN RED OAK
(Q. borealis Michx.).
*Coccomyces dentatus (Kunze & Schmidt) Sacc. 1880 York.
*Daedalea confragosa Pers. 1897 Penobscot.
Daedalea quercina (L.) Fr. P 1936.
*Diatrypella quercina (Pers.) Nits. 1859 Cumberland.
*Discosia artocreas (Tode) Fr. 1899 Cumberland.
Favolus canadensis Klotzsch. P 1936.
*Lasiosphaeria mutabilis (Pers.) Fckl. 1859 York.
*Microsphaera extensa Cke. & Pk. 1897 Penobscot.
Polyporus compactus Overh. P 1936 (First report from outside Pennsylvania and New Jersey).
*Sphaeria obscura Schw. Cumberland.

RANUNCULUS ACRIS L. TALL BUTTERCUP
*Erysiphe communis (Wallr.) Fr. 1900 Penobscot.
*Ramularia ranunculi Pk. 1900 Penobscot.

RHAMNUS sp. BUCKTHORN
*Puccinia coronata Cda. Cumberland.

RHAMNUS CATHARTICA L. COMMON BUCKTHORN
Puccinia coronata Cda. C 1928 Penobscot.

RHODODENDRON sp.
Phomopsis kalmiae Enlows. C 1933 Androscoggin.
Septoria rhododendri Cke. B Maine.

RHODODENDRON CANADENSE (L.) B.S.P. RHODORA
(Rhodora canadensis L.).
Exobasidium vaccinii (Fckl.) Wor. P 1931.
Pucciniastrum myrtilli (Schum.) Arth. A Maine.

Rhodora canadensis. See RHODODENDRON CANADENSE.

RHUS sp. SUMAC
*Cytospora rhuinae Fr. Maine. (R. says may be C. rhoina Fr.).
Physalospora obtusa (Schw.) Cke. (P. cydoniae Am. Auth.). C 1929 York.

RHUS TYPHINA L. STAGHORN SUMAC
*Calospora aculeans (Schw.) Sacc. 1857 Cumberland.
*Phoma pulchella (Berk. & Curt.) Sacc. Cumberland.
*Sporocybe rhois Berk. & Curt. (Lichen). 1900 Penobscot.

RIBES sp. CURRANT, GOOSEBERRY
Alternaria sp. C 1910 Kennebec.
Cronartium ribicola J. C. Fischer. C 1916 Kennebec.
Gloeosporium ribis (Lib.) Mont. & Desm. C 1910 Sagadahoc.
Mycosphaerella grossulariae (Fr.) Lindau. P 1919 Suppl. 9.
Puccinia caricis (Schum.) Schroet. C 1914 York, Penobscot.
Sphaerotheca mors-uvae (Schw.) Berk. & Curt. C 1914 Lincoln.

RIBES AMERICANUM Mill. WILD BLACK CURRANT
(R. floridum L'Her.).
Cronartium ribicola J. C. Fischer. A Maine.

Ribes floridum. See R. AMERICANUM.

RIBES GLANDULOSUM Grauer. SKUNK CURRANT
(R. prostatum L'Her.).
Cronartium ribicola J. C. Fischer. A Maine.
Puccinia caricis grossulariata Arth. A Maine.
Puccinia ribis DC. A Maine.

Ribes grossularia. See GROSSULARIA RECLINATA.
Ribes hirtellum. See GROSSULARIA HIRTELLA.

RIBES NIGRUM L. BLACK CURRANT
Cronartium ribicola J. C. Fischer. C 1917 York. L 1927 Hancock.

Ribes prostratum. See R. GLANDULOSUM
Ribes rubrum. See R. TRISTE.

RIBES TRISTE Pall.
(R. rubrum Gray).
*Plowrightia ribesia (Pers.) Sacc. 1896 Penobscot.
Puccinia ribis DC. A Maine.

RIBES VULGARE Lam. RED CURRANT
Cronartium ribicola J. C. Fischer. C 1917 Hancock, Kennebec.
Nectria cinnabarina (Tode) ex Fr. C 1914 Oxford.
Septoria ribis Desm. C 1916 Hancock.

ROBINIA PSEUDO-ACACIA L. LOCUST
*Aglaospora profusa (Fr.) DeNot. Cumberland.
*Nectria cinnabarina (Tode) Fr. Penobscot.
*Sphaeropsis robiniae Ell. & Barthol. Cumberland.
*Tubercularia granulata (Pers.) Fr. Cumberland.

ROSA sp.
Actinonema rosae (Lib.) Fr. C 1910 Hancock. L 1927 York.
*Cercospora rosicola Pass. 1900 Cumberland.
*Peronospora sparsa Berk. 1900 Penobscot.
Phragmidium sp. C 1918 Penobscot. P 1918 Suppl. 5.
Phragmidium disciflorum (Tode) J. F. James. C 1918 Oxford.
Phragmidium rosae-californicae Diet. C 1933 Lincoln.
Phragmidium speciosum (Fr.) Cke. C 1933 Hancock.
*Phragmidium subcorticinum (Schrank) Wint. Cumberland.
Phytomonas tumefaciens (EFS & Town) Bergey et al. (Bacterium tumefaciens EFS & Town). C 1930 Piscataquis.
Sphaerotheca sp. C 1930 Penobscot. L 1926 Knox.
Sphaerotheca humuli (DC.) Wint. C 1929 Cumberland.
Sphaerotheca pannosa (Wallr.) Lév. C 1911 Aroostook.

ROSA VIRGINIANA Mill.
Phragmidium americanum (Pk.) Diet. A Maine.

RUBUS sp.
Botrytis sp. C 1935 Penobscot.
Botrytis cinerea Pers. C 1928 Penobscot.
Elsinoë veneta (Burkh.) Jenkins (Gloeosporium venetum Speg.). C 1911 Androscoggin. L 1925 Penobscot.
Epicoccum sp. C 1910 York.
Fusarium sp. C 1931 Somerset.
Gymnoconia peckiana (Howe) Trotter. C 1909 Androscoggin (Common in most seasons).
*Helotium herbarum (Pers.) Fr. 1880 York.
Kunkelia nitens (Schw.) Arth. C 1936 Penobscot.
Mycosphaerella rubina (Pk.) Jacz. C 1924 Penobscot.
*Phragmidium rubi idaei (DC.) Karst. Westbrook.

RUBUS sp. (continued)
Phytomonas tumefaciens (EFS & Town.) Bergey et al. (Bacterium tumefaciens EFS & Town.). C 1930 Piscataquis.
Septoria sp. C 1929 Cumberland. L 1925 Cumberland.
Septoria rubi Westend. C 1913 Cumberland. L 1925 Cumberland.
Sphaerotheca humuli (DC.) Wint. P 1932.
*Tubercularia nigricans (Bull.) Link. 1889 Penobscot.

RUBUS ALLEGHENIENSIS Porter
(R. nigrobaccus Bailey).
Gymnoconia peckiana (Howe) Trotter. A Maine.
Kuehneola uredinis (Link) Arth. A Maine.

RUBUS CANADENSIS L. BLACKBERRY
Gnomonia rubi Rehm. C 1915 York.
Gymnoconia peckiana (Howe) Trotter. A Maine.
Kuehneola uredinis (Link) Arth. A Maine.
Kunkelia nitens (Schw.) Arth. A Maine. P 1924.
Phytomonas tumefaciens (EFS & Town.) Bergey et al. (Bacterium tumefaciens EFS & Town.). C 1914 Androscoggin.

RUBUS FLAGELLARIS Willd.
(R. plicatifolius Blanch. in part; R. villosus Auth.).
Kuehneola uredinis (Link) Arth. A Maine.
*Septoria rubi Westend. 1899 Cumberland.

Rubus frondosus. See R. RECURVANS.

RUBUS HISPIDUS L. DEWBERRY
Kuehneola uredinis (Link) Arth. A Maine.
*Rhytisma blakei Curt. 1857 York.

RUBUS IDAEUS L. COMMON RED RASPBERRY
(R. strigosus Michx.).
*Coryneum microstictum Berk. & Br. Cumberland.
Phragmidium rubi-idaei (DC.) Karst. A Maine.
Pucciniastrum americanum (Farl.) Arth. A Maine.

RUBUS NIGRICANS Rydb.
Kuehneola uredinis (Link) Arth. A Maine.

Rubus nigrobaccus. See R. ALLEGHENIENSIS.

RUBUS OCCIDENTALIS L. BLACK RASPBERRY
Gymnoconia peckiana (Howe) Trotter. A Maine.

RUBUS ODORATUS L. PURPLE FLOWERING RASPBERRY
Phragmidium rubi-odorati Diet. A Maine.

RUBUS PERGRATUS Blanch.
Kuehneola uredinis (Link) Arth. A Maine.

Rubus plicatifolius. See R. FLAGELLARIS.

RUBUS RECURVANS Blanch.
(R. frondosus Bigel.).
Kuehneola uredinis (Link) Arth. A Maine.

Rubus strigosus. See R. IDAEUS.
Rubus villosus. See R. FLAGELLARIS.

RUDBECKIA LACINIATA L. GOLDEN GLOW
Erysiphe cichoracearum DC. C 1919 Franklin.

RUMEX BRITANNICA L. GREAT WATER DOCK
Puccinia ornata Arth. & Holw. A Maine.

SALIX sp. WILLOW
*Coniothecium toruloides Cda. 1857 Cumberland.
*Discella carbonacea (Fr.) Berk. & Br. Cumberland.
Fusarium sp. C 1928 Washington.
Fusicladium saliciperdum (Allesch. & Tub.) Lindr. C 1929 (general).
P 1928 Suppl. 65.
*Hypoxylon glomiforme Berk. & Curt. Cumberland.
*Hypoxylon morsei Berk. & Curt. 1857 Cumberland.
Marssonia populi (Lib.) Magn. C 1928 Hancock.
?*Melampsora farinosa (Pers.) Schroet. Penobscot.
*Phacidium salicinum Fckl. Penobscot.
Physalospora miyabeana Fukushi. P 1929 Suppl. 75.
*Solenia ochracea Hoffm. 1876 Cumberland.
*Trametes mollis (Sommerf.) Fr. 1859 Cumberland.
*Trametes suaveolens (L.) Fr. 1896 Lincoln.

SALIX ALBA L. WHITE WILLOW
Trametes suaveolens (L.) Fr. P 1936.

SALIX AMYGDALOIDES Anders. PEACH-LEAVED WILLOW
Melampsora bigelowii Thum. A Maine.

SALIX CORDATA Muhl. HEART-LEAF WILLOW
?*Melampsora farinosa (Pers.) Schroet. 1896 Androscoggin.
*Rhytisma salicinum (Pers.) Fr. 1899 Penobscot.
*Uncinula salicis (DC.) Wint. 1899 Penobscot.

SALIX DISCOLOR Muhl. GLAUCOUS WILLOW
*Corticium salicinum Fr. 1900 Penobscot.
*Uncinula salicis (DC.) Wint. 1900 Penobscot.

SALIX HERBACEA L. PYGMY WILLOW
*Rhytisma salicinum (Pers.) Fr. 1898 Piscataquis.

SALIX LUCIDA Muhl. SHINING WILLOW
?*Melampsora vitellinae (DC.) Thüm. 1900 Penobscot.
*Schizophyllum commune Fr. 1897 Penobscot.

SAMBUCUS sp. ELDER
*Dendrophoma sambuci (Berk. & Curt.) Sacc. Maine.
*Nectria sambuci Ell. & Ev. 1897 Penobscot.

SAMBUCUS NIGRA L. EUROPEAN ELDER
*Cercospora depazeoides (Desm.) Sacc. 1897 Cumberland.

SCIRPUS ATROVIRENS Muhl.
Puccinia angustata Pk. A Maine.

Scirpus campestris. See S. ROBUSTUS var. PALUDOSUS.

SCIRPUS ERIOPHORUM Michx.
Puccinia angustata Pk. A Maine.

SCIRPUS ROBUSTUS Pursh var. PALUDOSUS Nels.
(S. campestris Britton).
Uromyces scirpi (Cast.) Burr. A Maine.

SCUTELLARIA GALERICULATA L. HOODED WILLOW-HERB
*Septoria scutellariae Thüm. 1899 Cumberland.

SECALE CEREALE L. RYE
*Claviceps purpurea (Fr.) Tul. 1897 Cumberland.
Puccinia graminis Pers. L 1919.
*Puccinia rubigo-vera (DC.) Wint. Penobscot.

SEDUM sp. STONECROP
Septoria sedi (Lib.) Westend. P 1925 Suppl. 50.

SETARIA ITALICA (L.) Beauv. HUNGARIAN GRASS
Helminthosporium densum Riessl. C 1916 Cumberland.

SIBBALDIOPSIS TRIDENTATA (Sol.) Rydb.
(Potentilla tridentata Ait.).
Pucciniastrum potentillae Kom. A Maine.

SISYRINCHIUM ANGUSTIFOLIUM Mill.
Uromyces houstoniatus (Schw.) Sheld. A Maine.

SIUM CICUTAEFOLIUM Schrank. WATER-PARSNIP
*Septoria sii Rob. & Desm. 1899 Cumberland.

SMILAX HERBACEA L. CARRION FLOWER
*Phyllosticta smilacis Ell. & Mart. 1899 Penobscot.

SOLANUM MELONGENA L. EGGPLANT
Phoma sp. B Maine.

SOLANUM TUBEROSUM L. POTATO
Actinomyces scabies (Thax.) Güssow. C 1908 (general). P 1917.
Alternaria solani (Ell. & Mart.) Jones & Grout. C 1908 (general). P 1918.
Botrytis cinerea Pers. C 1914 (general). P 1927.
Corticium vagum Berk. & Curt. C 1908 (general). P 1917.
Erwinia phytophthora (Appel) Bergey (Bacillus phytophthorus Appel) (Bacillus atrosepticus Van Hall). C 1908 (general). P 1918.
Fusarium sp. C 1910 (general). P 1931.
Fusarium oxysporum Schlecht. C 1908 (general). P 1919.
Fusarium radicicola Woll. P 1918.
Phoma sp. C 1918 Aroostook. P 1919. L 1925 Penobscot.
Phoma tuberosa Melhus, Rosenbaum, & Schultz. C 1927 Aroostook. P 1927.
Phytophthora infestans (Mont.) D By. C 1908 (general). P 1917.
Sclerotinia sclerotiorum (Lib.) D By. C 1914 Washington.
Spondylocladium atro-virens Harz. C 1913 (general). B Maine.
Spongospora subterranea (Wallr.) Lagerh. C 1913 (general). B Maine.
Verticillium albo-atrum Reinke & Berth. C 1913 Somerset, Aroostook. P 1919 Suppl. 2.

SOLIDAGO sp. GOLDEN-ROD
*Coleosporium solidaginis (Schw.) Thüm. 1857 Cumberland.
?*Dinemasporium strigosum (Fr.) Sacc. Maine.
*Puccinia hieracii (Schum.) Mart. Maine.

SOLIDAGO CANADENSIS L.
*Coleosporium solidaginis (Schw.) Thüm. 1899 Penobscot.

SOLIDAGO GRAMINIFOLIA (L.) Salisb.
(S. lanceolata L. of R.; Euthamia graminifolia (L.) Nutt.).
Coleosporium delicatulum (Arth. & Kern) Hedgc. & Long. A Maine.
?*Leptosphaeria doliolum (Pers.) DeNot. 1899 Penobscot.
Puccinia extensicola euthamii Arth. A Maine.
*Rhytisma solidaginis Schw. Cumberland.

Solidago lanceolata. See S. GRAMINIFOLIA.

SOLIDAGO RUGOSA Mill.
Uromyces perigynius Halst. A Maine.

SONCHUS ASPER (L.) Hill. SPINY-LEAVED SOW-THISTLE
*Septoria sonchifolia Cke. 1899 Penobscot.

SORBUS AMERICANA DC. MOUNTAIN ASH
Gymnosporangium aurantiacum Chev. P 1922 Suppl. 29. A Maine.
L 1920 Knox.
Gymnosporangium globosum Farl. C 1910 Hancock. A Maine.

Sorbus sambucifolia. See S. SCOPULINA.

SORBUS SCOPULINA Greene.
(S. sambucifolia Gray).
Gymnosporangium aurantiacum Chev. A Maine. H 1936 Hancock.

SPARTINA MICHAUXIANA Hitchc.
Puccinia peridermiospora (Ell. & Tracy) Arth. A Maine.

SPARTINA PATENS (Ait.) Muhl.
Uromyces acuminatus Arth. A Maine.

SPERGULA ARVENSIS L.
Puccinia arenariae (Schum.) Wint. A Maine.

SPINACIA OLERACEA L. SPINACH
Peronospora effusa (Grev.) Rabh. C 1929 Penobscot.

SPIRAEA LATIFOLIA (Ait.) Borkh. SPIRAEA
(S. salicifolia of R.).
*Podosphaera minor Howe. 1900 Penobscot.

Spiraea salicifolia. See S. LATIFOLIA.
Spiraea ulmaria. See FILIPENDULA ULMARIA.

STACHYS PALUSTRIS L. WOUNDWORT
*Cercospora stachydis Ell. & Ev. 1896 Twobush Is., Penobscot.

STEIRONEMA CILIATUM (L.) Raf. FRINGED LOOSESTRIFE
*Septoria conspicua Ell. & Mart. 1900 Penobscot.

STELLARIA MEDIA (L.) Cyrill. CHICKWEED
Melampsorella cerastii (Pers.) Schroet. A Maine.

SYMPHORICARPOS ALBUS Blake. SNOWBERRY
Gloeosporium rufo-maculans (Berk.) Thüm. C 1932 Penobscot.

SYRINGA sp. LILAC
Microsphaera alni (Wallr.) Wint. C 1908 (general over range of host).

SYRINGA VULGARIS L. COMMON LILAC
*Microsphaera friesii Lév. 1897 Penobscot.
Phyllosticta syringae Westend. L 1919 York.
Phytomonas syringae (Van Hall) Bergey et al. (Bacterium syringae) C 1928 Hancock. P 1928.

Taraxacum erythrospermum. See T. LAEVIGATUM.

TARAXACUM LAEVIGATUM (Willd.) DC.
(T. erythrospermum Andrz.).
Puccinia hieracii (Schum.) Mart. A Maine.

TARAXACUM OFFICINALE Weber. DANDELION
(T. vulgare (Lam.) Schr.; T. palustre (Lyons) Lam. & DC.).
Puccinia hieracii (Schum.) Mart. A Maine.
*Ramularia taraxaci Karst. 1899 Cumberland.

Taraxacum palustre. See T. OFFICINALE.
Taraxacum vulgare. See T. OFFICINALE.

THALICTRUM sp. MEADOW RUE
*Tranzschelia thalictri (Chev.) Diet. (Puccinia thalictri of R.). Cumberland.

THUJA OCCIDENTALIS L. WHITE CEDAR
Lophodermium pinastri (Schrad.) Chev. B Maine.
*Ombrophila enterochroma (Pk.) Sacc. 1898 Penobscot.
Pestalozzia sp. C 1931 Waldo.
Pestalozzia funerea Desm. B Maine.
Poria papyracea Schw. P 1936.
*Schizophyllum commune Fr. Penobscot 1897.

TILIA AMERICANA L. BASSWOOD
(T. glabra Vent.).
*Cyphella pezizoides Zopf. 1890 Penobscot.
*Cytospora carnea Ell. & Ev. (Cytispora of R.). Penobscot.
*Hercospora tiliacea (Ell.) Sacc. Penobscot.
*Hercospora tiliae (Pers.) Tul. (Rabenhorstia tiliae Fr. of R.). 1896 Penobscot.
*Solenia ochracea Hoffm. 1887 Penobscot.

Tilia glabra. See T. AMERICANA.

TITHYMALUS CYPARISSIAS (L.) Hill. CYPRESS SPURGE
(Euphorbia cyparissias L.).
Melampsora euphorbiae (Schub.) Cast. A Maine.

TRIADENUM VIRGINICUM (L.) Raf.
(Hypericum virginicum L.).
Uromyces hyperici (Spreng.) Curt. A Maine.

TRIENTALIS AMERICANA (Pers.) Pursh. STARFLOWER
*Septoria increscens Pk. 1897 Oxford.

TRIFOLIUM sp. CLOVER
Erysiphe polygoni DC. C 1922 (general).
Gloeosporium caulivorum Kirch. C 1912 (general). P 1928.
Polythrincium trifolii Kunze. C 1912 Penobscot.
Sclerotinia trifoliorum Erikss. C 1928 Aroostook.
Uromyces trifolii (Hedw.f.) Lév. C 1913 Penobscot.

TRIFOLIUM HYBRIDUM L. ALSIKE CLOVER
Uromyces trifolii hybridi (W. H. Davis) Arth. C 1913 Penobscot. A Maine.

TRIFOLIUM PRATENSE L. RED CLOVER
Colletotrichum trifolii S. M. Bain. C 1913 Penobscot. P 1919 Suppl. 4. L 1913 Aroostook.
Erysiphe polygoni DC. C 1922 York. P 1924 Suppl. 35.
*Phyllachora trifolii (Pers.) Fckl. 1898 Penobscot.
*Polythrincium trifolii Kunze. 1859 Cumberland.
Pseudopeziza trifolii (Biv.) Fckl. C 1913 (general).
*Sphaerella nebulosa (Pers.) Sacc. Cumberland.
Uromyces trifolii fallens (Desm.) Arth. C 1914 Penobscot. A Maine.

TRIFOLIUM REPENS L. WHITE CLOVER
*Polythrincium trifolii Kunze. 1898 Cumberland.
Uromyces trifolii trifolii-repentis (Liro) Arth. A Maine.

TRITICUM AESTIVUM L. WHEAT.
Cladosporium herbarum (Pers.) Link. C 1925 Androscoggin.
Erysiphe graminis DC. C 1918 Cumberland.
Fusarium sp. L 1925 Aroostook.
Gibberella saubinetii (Mont.) Sacc. C 1918 Aroostook. L 1918 Maine
Puccinia graminis Pers. C 1918 Cumberland. L 1918 Aroostook. A Maine.
Puccinia rubigo-vera tritici (Erikss. & Henn.) Carl. (P. triticina of L.). L 1933 Maine.
Septoria nodorum Berk. L 1925 Androscoggin.
Tilletia levis Kühn. C 1918 Aroostook. L 1918 Maine.
Ustilago tritici (Pers.) Rostr. C 1910 Washington. L 1933 Maine.

TROPAEOLUM MAJUS L. NASTURTIUM
Bacterium aptatum Brown & Jamieson. L 1932. Det. by Nellie A. Brown.

TSUGA CANADENSIS (L.) Carr. HEMLOCK
Fomes roseus (Alb. & Schw.) Cke. P 1936.
*Irpex mollis Berk. & Curt. 1895 Cumberland.
*Merulius tremellosus (Schrad.) Fr. 1886 Penobscot.
*Polyporus caesius (Schrad.) Fr. 1894 Penobscot.
*Polyporus resinosus (Schrad.) Fr. (Polyporus benzoinus (Wahl.) Fr. of R.). 1894 Penobscot.
*Polyporus spumeus (Sow.) Fr. 1895 Penobscot.
Polyporus tsugae (Murr.) Overh. P 1936.
Poria tsugina (Murr.) Sacc. & Trotter. P 1936.
Pucciniastrum myrtilli (Schum.) Arth. P 1931. A Maine.
Trametes americana Overh. P 1936.
Trametes heteromorpha (Fr.) Lloyd. P 1936.
Trametes serialis Fr. P 1936.
*Tremella mesenterica Retz. 1857 Cumberland.
*Tremellodon gelatinosum (Scop.) Fr. 1858 Cumberland.

TULIPA sp. TULIP
Botrytis tulipae (Lib.) Hopkins. C 1927 Aroostook.
Sclerotinia parasitica Mass. C 1910 Hancock.

TYPHA LATIFOLIA L. COMMON CAT-TAIL
*Cladosporium typharum Desm. 1900 Penobscot.
*Epicoccum scabrum Cda. 1900 Penobscot.
*Epicoccum sphaerospermum Berk. 1857 Maine.
*Phoma orthosticha Ell. & Ev. 1858 Cumberland.

ULMUS sp. ELM
Gnomonia ulmea (Sacc.) Thüm. C 1908 (general over range of host). P 1920 Suppl. 17.
*Mollisia discolor (Mont.) Phill. 1858 Cumberland.

ULMUS AMERICANA L. AMERICAN ELM
*Blitrydium cucurbitaria (Cke.) Sacc. 1897 Hancock.
*Bulgaria inquinans (Pers.) Fr. 1898 Cumberland.
*Caldesiella ferruginosa (Fr.) Sacc. Cumberland.
Daedalea unicolor (Bull.) Fr. H 1936 Penobscot.
Fomes applanatus (Pers.) Wallr. P 1936.
Gnomonia ulmea (Sacc.) Thüm. H 1934.
*Karschia lignyota (Fr.) Sacc. 1897 Penobscot.
Polyporus adustus (Willd.) Fr. H 1936 Penobscot.
Polyporus conchifer (Schw.) Fr. P 1936.
Polyporus versicolor (L.) Fr. H 1936 Penobscot.

VACCINIUM sp.
Gibbera compacta (Pk.) Shear (Venturia compacta Pk.). B Maine.
*Rhytisma vaccinii (Sacc.) Fr. 1859 York.

VACCINIUM CAESPITOSUM Michx. BLUEBERRY
Pucciniastrum goeppertianum (Kühn) Kleb. (Calyptospora columnaris Kühn). P 1931.

VACCINIUM CANADENSE (L.) B.S.P.
Botrytis sp. P 1931.
Exobasidium vaccinii (Fckl.) Wor. P 1931.
Microsphaera alni var. vaccinii (Schw.) Salm. P 1931.
Pucciniastrum goeppertianum (Kühn) Kleb. (Calyptospora columnaris Kühn). A Maine. P 1931.
Pucciniastrum myrtilli (Schum.) Arth. P 1931.
Sclerotinia sp. P 1931.

VACCINIUM CORYMBOSUM L. HIGHBUSH BLUEBERRY
Botrytis sp. P 1931.
Exobasidium vaccinii (Fckl.) Wor. P 1931.
Microsphaera alni var. vaccinii (Schw.) Salm. P 1931.
Pucciniastrum goeppertianum (Kühn) Kleb. (Calyptospora columnaris Kühn). P 1931.
Pucciniastrum myrtilli (Schum.) Arth. P 1931. A Maine.
Sclerotinia sp. P 1931.

VACCINIUM MACROCARPON Ait. CRANBERRY
Acanthorhyncus vaccinii Shear. B Maine.
Fusicoccum putrefaciens Shear. B Maine.
Gibbera compacta (Pk.) Shear (Sphaerella maculiformis of R., Venturia compacta Pk.). 1855 Cumberland. B Maine.
Sclerotinia sp. P 1931.

VACCINIUM PENNSYLVANICUM Lam. BLUEBERRY
Botrytis sp. P 1931.
Exobasidium vaccinii (Fckl.) Wor. P 1931.
Microsphaera alni var. vaccinii (Schw.) Salm. P 1931.
Pucciniastrum goeppertianum (Kühn) Kleb. (Calyptospora columnaris Kühn). P 1931.
Pucciniastrum myrtilli (Schum.) Arth. P 1931. A Maine.
Sclerotinia sp. P 1931.

VACCINIUM PENNSYLVANICUM Lam. var. NIGRUM Wood. BLUEBERRY
Microsphaera alni var. vaccinii (Schw.) Salm. P 1931.

VACCINIUM ULIGINOSUM L. BLUEBERRY
Pucciniastrum goeppertianum (Kühn) Kleb. (Calyptospora columnaris Kühn). P 1931.
Pucciniastrum myrtilli (Schum.) Arth. P 1931.

VACCINIUM VITIS-IDAEA L. BLUEBERRY
Exobasidium vaccinii (Fckl.) Wor. P 1931.
Pucciniastrum goeppertianum (Kühn) Kleb. (Calyptospora columnaris (Kühn). P 1931.

VERBASCUM THAPSUS L. MULLEIN
*Sphaeria verbascicola Schw. 1900 Penobscot.

VIBURNUM ALNIFOLIUM Marsh. WITCH-HOBBLE
(V. lantanoides Michx.).
*Phyllosticta tinea Sacc. 1899 Penobscot.

VIBURNUM CASSINOIDES L. WITHE-ROD
*Cercospora varia Pk. 1897 Penobscot.

Viburnum lantanoides. See V. ALNIFOLIUM.

VICIA VILLOSA Roth. HAIRY VETCH
Ascochyta pisi Lib. C 1911 Oxford.

VIOLA BLANDA Willd.
*Puccinia violae (Schum.) DC. 1896 Penobscot.

VIOLA CUCULLATA Ait.
*Puccinia ellisiana Thüm. (Aecidium mariae-wilsoni Pk. of R.). 1881 Cumberland.
Puccinia violae (Schum.) DC. A Maine.

VIOLA ERIOCARPA var. LEIOCARPA Fern. & Wieg.
(V. scabriuscula Schw.).
Puccinia violae (Schum.) DC. A Maine.

VIOLA FIMBRIATULA Sm.
Puccinia violae (Schum.) DC. A Maine.

VIOLA INCOGNITA Brain.
Puccinia violae (Schum.) DC. A Maine.

VIOLA LANCEOLATA L. LANCE-LEAVED VIOLET
Puccinia violae (Schum.) DC. A Maine.

VIOLA PRIMULIFOLIA L.
Puccinia violae (Schum.) DC. A Maine.

VIOLA RENIFOLIA Gray
Puccinia violae (Schum.) DC. A Maine.

VIOLA ROTUNDIFOLIA Michx. ROUND-LEAVED VIOLET
*Puccinia violae (Schum.) DC. 1890 Penobscot.

Viola scabriuscula. See V. ERIOCARPA var. LEIOCARPA.

VIOLA SEPTENTRIONALIS Greene.
Puccinia ellisiana Thüm. A Maine.
Puccinia violae (Schum.) DC. A Maine.

VITIS sp. GRAPE
Plasmopara viticola (Berk. & Curt.) Berl. & DeToni. C 1913 Kennebec.
Uncinula necator (Schw.) Burr. C 1931 York.

Vitis riparia. See V. VULPINA.

VITIS VULPINA L.
(V. riparia Michx.).
*Plasmopara viticola (Berk. & Curt.) Berl. & DeToni. 1900 Penobscot.
*Uncinula americana Howe. 1889 Penobscot.

Woodwardia areolata. See LORINSERIA AREOLATA.

ZANTEDESCHIA AETHIOPICA Spreng. COMMON CALLA
Erwinia aroideae (Town.) Holland (Bacillus aroideae Town). C 1908 Penobscot.

ZEA MAYS L. CORN
Alternaria fasciculata (Cke. & Ell.) Jones & Grout. C 1935 Kennebec.
Diplodia zeae (Schw.) Lév. C 1921 York. L 1933 Maine.
Fusarium sp. C 1910 Penobscot. P 1922 Suppl. 27. L 1933 Maine.
Helminthosporium inconspicuum Cke. & Ell. C 1917 York.
Phytomonas stewarti (EFS) Bergey et al. (Aplanobacter stewarti (EFS) McCul.) (Bacterium stewarti EFS). P 1933.
Puccinia sorghi Schw. C 1910 (general). P 1933. L 1933 Maine.
Rhizoctonia sp. C 1914 Oxford.
Ustilago zeae (Beckm.) Ung. (U. maydis Cda.). C 1909 (general). P 1925.

ALPHABETICAL LISTING OF PATHOGENS

Acanthorhyncus vaccinii, 48.
Actinomyces scabies, 10, 43.
Actinonema rosae, 39.
Aecidium ligustici, 24.
(Aecidium mariae-wilsoni) see Puccinia ellisiana.
Aglaospora profusa, 39.
Agyrium rufum, 30.
Albugo candida, 13, 18.
Alternaria sp., 16, 18, 24, 27, 35, 38.
Alternaria brassicae, 12, 13.
Alternaria fasciculata, 28, 50.
Alternaria mali, 35.
Alternaria solani, 25, 43.
Amphisphaeria applanata, 30.
Anthostoma ellisii, 6.
Anthostoma microsporum, 6, 11.
(Aplanobacter stewarti) see Phytomonas stewartii.
Aposphaeria hemisphaerica, 30.
Aposphaeria hysterella, 30.
Armillaria mellea, 5.
Ascochyta piniperda, 28.
Ascochyta pisi, 31, 49.
Asterina celastri, 14.
Asterina gaultheriae, 20.
(Bacillus amylovorus) see Erwinia amylovora.
(Bacillus aroideae) see Erwinia aroideae.
(Bacillus atrosepticus) see Erwinia phytophthora.
(Bacillus carotovorus) see Erwinia carotovora.
Bacillus caulivorus, 27.
(Bacillus phytophthorus) see Erwinia phytophthora.
(Bacillus tracheiphilus) see Erwinia tracheiphila.
Bacterium aptatum, 47.
(Bacterium campestre) see Phytomonas campestris.
(Bacterium delphinii) see Phytomonas delphinii.
(Bacterium flaccumfaciens) see Phytomonas flaccumfaciens.
(Bacterium phaseoli) see Phytomonas phaseoli.
(Bacterium pruni) see Phytomonas pruni.
(Bacterium stewarti) see Phytomonas stewartii.
(Bacterium syringae) see Phytomonas syringae.
(Bacterium tumefaciens) see Phytomonas tumefaciens.
Balansia hypoxylon, 8, 17.
Bertia moriformis, 3.
Blitrydium cucurbitaria, 47.
Bombardia fasciculata, 11.
Botryosporium pulchrum, 25.
Botrytis sp., 17, 20, 23, 24, 27, 31, 34, 39, 48.
Botrytis cinerea, 28, 35, 39, 43.
Botrytis squamosa, 6.
Botrytis tulipae, 47.
Bulgaria inquinans, 5, 47.
Bulgaria rufa, 12.
Caldesiella ferruginosa, 27, 47.
Caliciopsis pinea, 30.
Calocera cornea, 6, 30.
Calosphaeria ciliatula, 12.
Calospora aculeans, 38.
(Calyptospora columnaris) see Pucciniastrum goeppertianum.
Capnodium pini, 30.
Cenangium abietis, 30.
Cenangium abietis strobilinum, 27.
Cenangium furfuraceum, 6.
Cenangium populneum, 33.
Cenangium prunastri, 3.
Cenangium tuberculiforme, 6.
Cephalothecium roseum, 35.
Ceratostoma spina, 20.
Cercospora apii, 8.
Cercospora apii pastinacae, 27.
Cercospora beticola, 10.
Cercospora circumscissa, 35.
Cercospora depazeoides, 42.

Cercospora diervillae, 18.
Cercospora nymphaeacea, 26.
Cercospora plantaginis, 31.
Cercospora rosicola, 39.
(Cercospora squalida) see Cercospora squalidula.
Cercospora squalidula, 15.
Cercospora stachydis, 44.
Cercospora varia, 49.
Ceuthospora sp., 20.
Chilonectria cucurbitula, 3.
Chlorosplenium versiforme, 3.
Chrysomyxa cassandrae, 14, 29.
Chrysomyxa empetri, 18.
Chrysomyxa ledicola, 24, 28, 29.
Chrysomyxa pyrolae, 26, 29, 35.
Cladosporium sp., 34.
Cladosporium carpophilum, 34.
Cladosporium cucumerinum, 16, 17.
Cladosporium epiphyllum, 37.
Cladosporium fulvum, 25.
Cladosporium herbarum, 46.
Cladosporium pisicola, 31.
Cladosporium typharum, 47.
Claudopus nidulans, 19.
Claviceps purpurea, 13, 20, 42.
Coccomyces sp., 30.
Coccomyces dentatus, 11, 37.
Coccomyces pini, 31.
Coleosporium delicatulum, 43.
Coleosporium solidaginis, 10, 18, 30, 43.
Colletotrichum lagenarium, 16.
Colletotrichum lindemuthianum, 28.
Colletotrichum pisi, 31.
Colletotrichum trifolii, 46.
Coniothecium toruloides, 41.
Corticium auberianum, 6.
Corticium salicinum, 41.
Corticium vagum, 12, 13, 43.
Coryne sarcoides, 3.
Coryneum foliicolum, 35.
Coryneum microstictum, 40.
(Cronartium cerebrum) see Cronartium quercuum.
Cronartium comptoniae, 26, 30, 31.
Cronartium quercuum, 30.
Cronartium ribicola, 31, 38, 39.
Cryptosporium pini, 31.
Cucurbitaria berberidis, 10.
Cucurbitaria elongata, 30.
Cucurbitaria longitudinalis, 25.
Cylindrosporium sp., 35.
(Cylindrosporium pomi) see Mycosphaerella pomi.
Cyphella pezizoides, 28, 45.
Cyphella ravenelii, 7.
(Cystopus candidus) see Albugo candida.
Cytospora sp., 35.
Cytospora carnea, 45.
Cytospora chrysosperma, 33.
Cytospora exasperans, 4.
Cytospora fugax, 20.
Cytospora leucosperma, 32.
Cytospora nivea, 33.
Cytospora pinastri, 31.
Cytospora rhuinae, 38.
Daedalea confragosa, 3, 4, 37.
Daedalea quercina, 37.
Daedalea unicolor, 7, 11, 47.
Daldinia concentrica, 20.
Dasyscypha agassizii, 3.
Dasyscypha calycina, 3.
Dasyscypha ellisiana, 30.
Dendrodochium compressum, 30.
Dendrophoma pruinosa, 20.
Dendrophoma sambuci, 42.
Dermatea cerasi, 34.
Dermatea fusispora, 11.
Diaporthe leiphaema, 6.
Diaporthe syngenesia, 19.
Diatrype disciformis, 19.
Diatrype nigro-annulata, 6.
Diatrype obesa, 4, 37.
Diatrype platystoma, 4.
Diatrype stigma, 11.
Diatrypella betulina, 12.
Diatrypella quercina, 37.
Diatrypella tocciaeana subeffusa, 7.
Diatrypella verruciformis, 11.
Dibotryon morbosum, 34.
Dichaena faginea, 19.
Didymellina iridis, 21.

Dimerosporium collinsii, 7.
Dinemasporium strigosum, 20, 43.
Diplodia microspora, 28.
Diplodia zeae, 50.
Discella carbonacea, 41.
Discosia artocreas, 3, 12, 37.
Dothidea sp., 11.
Dothidella betulina, 12.
Dothidella kalmiae, 23.
Durella compressa, 19.
Elsinoë veneta, 39.
Endobotryon elegans, 19.
Endothia parasitica, 14.
Entyloma compositarum, 10.
Epichloë typhina, 28.
Epicoccum sp., 28, 39.
Epicoccum scabrum, 47.
Epicoccum sphaerospermum, 47.
Erwinia amylovora, 16, 35.
Erwinia aroideae, 50.
Erwinia carotovora, 12.
Erwinia phytophthora, 43.
Erwinia tracheiphila, 16, 17.
Erysiphe sp., 28.
Erysiphe aggregata, 7.
Erysiphe cichoracearum, 10, 17, 41.
Erysiphe communis, 15, 17, 31, 37.
Erysiphe graminis, 31, 46.
Erysiphe phlogis, 28.
Erysiphe polygoni, 17, 31, 46.
Eutypa spinosa, 4.
Eutypella corynostoma, 4.
Exidia glandulosa, 7.
Exoascus alni-incanae, 7.
Exoascus deformans, 34.
Exoascus pruni, 34.
Exoascus tosquinetii, 7.
Exobasidium vaccinii, 8, 21, 38, 48, 49.
Fabraea maculata, 35.
Favolus alutaceus, 37.
Favolus alveolaris, 37.
Favolus boucheanus, 19.
Favolus canadensis, 37.
Favolus europaeus, 19.
Fomes annosus, 29.
Fomes applanatus, 4, 11, 47.
(Fomes carneus) see Fomes subroseus.
Fomes conchatus, 19.
Fomes connatus, 4, 12.
Fomes fomentarius, 11, 12, 19.
Fomes igniarius, 11, 19, 33, 36.
(Fomes lucidus) see Ganoderma lucidum.
Fomes nigricans, 11.
Fomes obliquus, 7.
Fomes pini, 3, 29, 30, 31.
Fomes pinicola, 29, 31.
Fomes roseus, 47.
Fomes salicinus, 11.
Fomes scutellatus, 4, 6.
Fomes subroseus, 29.
Fomes tenuis, 5.
Fracchiaea callista, 15.
Frommea obtusa, 33.
Fusarium sp., 6, 13, 16, 18, 20, 21, 24, 28, 31, 36, 39, 41, 43, 46, 50.
Fusarium conglutinans, 12.
Fusarium conglutinans callistephi, 13.
Fusarium martii phaseoli, 28.
Fusarium oxysporum, 43.
Fusarium radicicola, 43.
Fusicladium radiosum, 33.
Fusicladium saliciperdum, 41.
Fusicoccum putrefaciens, 48.
Ganoderma lucidum, 30.
Gibbera compacta, 48.
Gibberella pulicaris, 28.
Gibberella saubinetii, 46.
Gloeodes pomigena, 36.
Gloeosporium sp., 4.
Gloeosporium apocryptum, 4, 5.
Gloeosporium caulivorum, 46.
Gloeosporium coryli, 15.
Gloeosporium phomoides, 25.
Gloeosporium ribis, 38.
Gloeosporium rufo-maculans, 44.
(Gloeosporium venetum) see Elsinoë veneta.
Gloeosporium versicolor, 36.
Glomerella cingulata, 24, 25, 31, 34, 36.

Glomerularia corni, 15.
Glonium lineare, 36.
Gnomonia coryli, 16.
Gnomonia rubi, 40.
Gnomonia ulmea, 47.
Gnomoniella fimbriata, 27.
Grandinia corrugata, 6.
Guepinia spathularia, 11.
Guignardia bidwellii, 27.
Gymnoconia peckiana, 39, 40.
Gymnosporangium sp., 17, 36.
Gymnosporangium aurantiacum, 22, 44.
Gymnosporangium biseptatum, 7, 14.
Gymnosporangium clavariaeforme, 7, 17, 23.
Gymnosporangium clavipes, 7, 9, 16, 17, 23, 36.
Gymnosporangium corniculans, 7.
Gymnosporangium davisii, 9, 23.
Gymnosporangium ellisii, 14, 26.
(Gymnosporangium germinale) see Gymnosporangium clavipes.
Gymnosporangium globosum, 16, 23, 36, 44.
Gymnosporangium juniperi-virginianae, 23, 36.
Gymnosporangium nidus-avis, 7, 8, 23.
Gymnosporangium transformans, 9.
Helminthosporium sp., 10.
Helminthosporium densum, 42.
Helminthosporium gramineum, 21.
Helminthosporium inconspicuum, 50.
Helminthosporium inconspicuum britannicum, 10.
Helminthosporium macrocarpum, 6.
Helotium herbarum, 37, 39.
Hendersonia lirella, 20.
Hercospora tiliacea, 45.
Hercospora tiliae, 45.
Heterosporium gracile, 22.
Hydnum auriscalpium, 31.
Hydnum coralloides, 19.
Hydnum fusco-atrum, 6.
Hydnum mucidum, 36.
Hydnum ochraceum, 6, 19.
Hydnum pithyophilum, 30.
Hymenochaete rubiginosa, 4.
Hymenochaete tabacina, 4.
Hypocrea contorta, 6.
(Hypocrea richardsonii) see Stereum rufum.
Hypoderma commune, 9.
Hypoderma strobicola, 30.
Hypoxylon coccineum, 4.
Hypoxylon cohaerens, 19.
Hypoxylon enteromelum, 19.
Hypoxylon fuscum, 4, 6.
Hypoxylon glomiforme, 41.
Hypoxylon marginatum, 37.
Hypoxylon morsei, 6, 11, 41.
Hypoxylon multiforme, 11.
Hypoxylon perforatum, 4.
Hypoxylon pruinatum, 32.
Hypoxylon rubiginosum, 5.
Hypoxylon turbinulatum, 19.
Hysterium pulicare, 4, 5.
Hysterographium fraxini, 20.
Irpex cinnamomeus, 7.
Irpex lacteus, 11.
Irpex mollis, 47.
Karschia lignyota, 47.
Kneiffia setigera, 7.
Kuehneola uredinis, 40, 41.
Kunkelia nitens, 39, 40.
Lasiosphaeria mutabilis, 6, 37.
Lecanidion fusco-atrum, 30.
Lenzites betulina, 33.
Lenzites saepiaria, 29.
Lenzites trabea, 3.
Leptosphaeria doliolum, 14, 43.
Leptostroma filicinum, 26.
Leptostroma pteridis, 35.
Leptothyrium periclymeni, 24.
Leptothyrium pomi, 36.
Libertella betulina, 12.
Libertella faginea, 19.
Lophodermium juniperinum, 23.
Lophodermium pinastri, 29, 31, 45.
Macrosporium sp., 25.
Marssonia martini, 37.
Marssonia ochroleuca, 14.
Marssonia populi, 41.
Marssonia potentillae fragariae, 20.
Massaria inquinans, 4.
Massariella scoriadea, 6.

Melampsora abietis-canadensis, 33.
Melampsora bigelowii, 24, 41.
Melampsora euphorbiae, 46.
Melampsora farinosa, 41.
Melampsora medusae, 33.
Melampsora vitellinae, 42.
Melampsorella cerastii, 3, 29, 44.
(Melampsoridium betulae) see Melampsoridium betulinum.
Melampsoridium betulinum, 11, 12.
(Melampsoropsis ledicola) see Chrysomyxa ledicola.
(Melampsoropsis pyrolae) see Chrysomyxa pyrolae.
Melanconis stilbostoma, 36.
Melanconium bicolor, 12.
Melanconium oblongum, 22.
Melanomma pulvis-pyrius, 4.
Merulius haedinus, 6.
Merulius tremellosus, 29, 47.
Microsphaera alni, 45.
Microsphaera alni vaccinii, 21, 48.
Microsphaera densissima, 37.
Microsphaera dubyi, 24.
Microsphaera extensa, 37.
Microsphaera friesii, 45.
Microsphaera penicillata, 7.
Microsphaera russellii, 27.
Microthyrium microscopicum, 20.
Milesia fructuosa, 3, 18.
Milesia polypodophila, 3, 32.
Mollisia discolor, 47.
Mycosphaerella citrullina, 17.
Mycosphaerella colorata, 23.
Mycosphaerella fragariae, 20.
Mycosphaerella gaultheriae, 20.
Mycosphaerella grossulariae, 38.
Mycosphaerella maculiformis, 20.
Mycosphaerella pachyasca, 5, 18.
Mycosphaerella pinodes, 31.
Mycosphaerella pomi, 36.
Mycosphaerella rubina, 39.
Myxosporium corticola, 36.
Myxosporium nitidum, 15.
Naemospora crocea, 12.
Nectria sp., 4, 5, 11, 19.
Nectria cinnabarina, 28, 36, 39.
Nectria cucurbitula, 30, see also Chilonectria cucurbitula.
Nectria ditissima, 36.
Nectria galligena, 36.
Nectria sambuci, 42.
Nyssopsora clavellosa, 8.
Oidium chrysanthemi, 14.
(Oidium monilioides) see Erysiphe graminis.
Ombrophila enterochroma, 45.
Ophiobolus porphyrogonus, 4.
Ovularia monilioides, 26.
Panus stipticus, 5.
Penicillium sp., 36.
Penicillium expansum, 36.
Peniophora cinerea, 29, 36.
Periola tomentosa, 12.
Peronospora destructor, 6.
Peronospora effusa, 44.
(Peronospora schleideni) see P. destructor.
Peronospora sparsa, 39.
Peronospora viciae, 31.
Pestalozzia sp., 5, 45.
Pestalozzia funerea, 45.
Pezizella lythri, 20.
Pezizella vulgaris, 30.
Phacidium salicinum, 41.
Phacidium vaccinii, 9.
Phlebia strigosa-zonata, 12.
Phoma sp., 43.
Phoma acuum, 31.
Phoma asteriscus, 21.
Phoma betae, 10.
Phoma destructiva, 25.
Phoma landeghemiae, 28.
Phoma mali, 36.
Phoma orthosticha, 47.
(Phoma pomi) see Mycosphaerella pomi.
Phoma pulchella, 38.
Phoma strobiligena, 29, 31.
Phoma tuberosa, 43.
Phomopsis kalmiae, 37.
Phragmidium sp., 39.
Phragmidium americanum, 39.
Phragmidium disciflorum, 39.
Phragmidium potentillae, 33, 34.

Phragmidium rosae-californicae, 39.
Phragmidium rubi-idaei, 39, 40.
Phragmidium rubi-odorati, 40.
Phragmidium speciosum, 39.
Phragmidium subcorticinum, 39.
Phyllachora caricis, 14.
Phyllachora graminis, 17, 26, 28.
Phyllachora oxalina, 27.
(Phyllachora pomigena) see Gloeodes pomigena.
Phyllachora pteridis, 35.
Phyllachora trifolii, 46.
Phyllactinia suffulta, 14, 15, 16.
Phyllosticta sp., 5.
Phyllosticta acericola, 5.
Phyllosticta antirrhini, 8.
Phyllosticta caryae, 14.
Phyllosticta decidua, 25.
Phyllosticta fraxinicola, 20.
Phyllosticta gaultheriae, 20.
Phyllosticta hydrangeae, 22.
Phyllosticta lappae, 9.
Phyllosticta minima, 5.
Phyllosticta negundinis, 4.
Phyllosticta paviae, 5.
Phyllosticta smilacis, 43.
Phyllosticta sphaeropsoidea, 5.
Phyllosticta syringae, 45.
Phyllosticta tinea, 49.
(Physalospora cydoniae) see Physalospora obtusa.
(Physalospora malorum) see Physalospora obtusa.
Physalospora miyabeana, 41.
Physalospora obtusa, 36, 38.
Phytomonas campestris, 12, 13.
Phytomonas delphinii, 17.
Phytomonas flaccumfaciens, 28.
Phytomonas phaseoli, 28.
Phytomonas pruni, 34.
Phytomonas stewartii, 50.
Phytomonas syringae, 45.
Phytomonas tumefaciens, 35, 36, 39, 40.
Phytophthora infestans, 25, 43.
Piggotia fraxini, 20.
Plasmodiophora brassicae, 12, 13.
Plasmopara viticola, 27, 50.
Pleospora asparagi, 9.
(Plowrightia morbosa) see Dibotryon morbosum.
Plowrightia ribesia, 39.
Podosphaera minor, 44.
Podosphaera oxyacanthae, 34, 35, 36.
Polyporus abietinus, 3, 4, 29.
Polyporus admirabilis, 36.
Polyporus adustus, 4, 33, 47.
Polyporus albellus, 5.
Polyporus arcularius, 6.
(Polyporus benzoinus) see Polyporus resinosus.
Polyporus betulinus, 12.
Polyporus borealis, 19.
Polyporus brumalis, 11, 19.
Polyporus caesius, 47.
Polyporus cinnabarinus, 19.
Polyporus compactus, 37.
Polyporus conchifer, 47.
Polyporus dichrous, 5.
Polyporus dryophilus, 32.
Polyporus dryophilus vulpinus, 35.
Polyporus elegans, 11, 19.
Polyporus fumosus, 33.
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